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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

**ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES**

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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LPHIC:

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BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., *Curr. Opin. Cell Biol.* 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., *Nature* 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., *FASEB J.*, 9:745-754 (1995); Arvanitakis et al., *Nature*, 385:347-350 (1997); Murphy, *Annu. Rev. Immunol.* 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

[20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8)
20 tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

[22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.,* Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.,* covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (e.g., negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "nonconservative" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, e.g., lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "Antagonist" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (e.g., bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized de novo either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (e.g., a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (e.g., plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (e.g., a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

- [67] "Conservative changes" to an amino acid sequence, see Analog.
- [68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.
- [69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.
- [70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).
- [71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.
- [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.
- [73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.
- [74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.
- [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, *etc.*, described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] "Oligonucleotide" refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] "Operably linked" or "operably connected" indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] "Orphan receptor" refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] "PCR" or "polymerase chain reaction" refers to an *in vitro* method that uses oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] "Plasmids" refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will be apparent to the ordinarily skilled artisan in view of the present application.

[107] "Polynucleotide encoding a polypeptide" indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] "Portion" or "fragment" with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] "P-value" is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] "Receptor" refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] "Recombinant" refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] "Sample" is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (e.g., the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

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C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (*i.e.*, peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (e.g., fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- 15 [136] The antigenic peptides and proteins or polypeptides containing them can be purified by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. See U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.*, 53:189-204 (1990); Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)*, 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

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hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

[180] Monoclonal antibodies are obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.

[181] In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSE™, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli* cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opin. in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

[188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Altling-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 $V_{H\alpha}$, $V_{H\beta}$, $V_{H\gamma}$, $V_{H\delta}$, C_{H1} , V_L and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeven et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular
5 significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the
10 other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210
15 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to
20 unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

25 [214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains
30 on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

- 5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

- [218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.
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- 15

- [219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992) describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers (Suppl.) 7:45-50 (1992).
- 20
- 25

- [220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.
- 30

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. See US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (e.g., less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (e.g., cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (e.g., alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (e.g., a Phenyl SEPHAROSETM column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOWTM column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSETM High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSETM High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGELTM EMD Propyl or FRACTOGELTM EMD Phenyl columns (E. Merck, Germany); MACRO-PREPTM Methyl or MACRO-PREPTM t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)TM column (J. T. Baker, New Jersey); and TOYOPEARLTM ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (e.g., less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

[233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

- [241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

- [242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.* 40:219 (1981); and, Nygren, *J. Histochem. and Cytochem.* 30:407 (1982).

- [243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, *Monoclonal Antibodies: A Manual of Techniques*, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol, A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

**[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-
20 POLYMERS:**

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 µg/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (e.g., by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (e.g., anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (e.g., chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.

10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of

20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis

25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include

30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

- [281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

- [282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO[®] TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO[®] Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO[®] TBS (Tris Buffered Saline-S1968), and DAKO Tween[®] (S1966).

- [283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO[®] TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO[®] TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO[®] Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO[®] TBS, c) add 5 ml of DAKO TWEEN[®], and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

- [284] Solutions for antibody detection are prepared using Vector[®] Biotinylated antibody (BA series), Vectastain[®] ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector[®] Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide
15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679,
20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086,
25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

b) at least one of a reagent or a device for detecting the antibody.

16. An assay for the detection of a particular GPCR in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 1-5,

b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.

10 17. The assay of claim 16 further comprising the step of binding the isolated
antigenic peptide or the antibody to a solid substrate.

18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.

19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.

15 20. The assay of any one of claims 15-19 wherein the assay is selected from the
group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.

21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.

22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.

23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.

24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.

30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

38. The method of any one of claims 27-36 wherein the antigenic peptide has a
10 length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

41. The method of any one of claims 27-40 wherein the polypeptide is a human
15 protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

46. An isolated antigenic peptide comprising a short antigenic amino acid
25 sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim
30 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

- a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and
- b) at least one of a reagent or a device for detecting the antibodies.
49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.
50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.
51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.
52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.
53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.
54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.
55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:
- a) an isolated antibody according to any one of claims 49-53, and
- b) at least one of a reagent or a device for detecting the antibody.
56. An assay for the detection of a candidate polypeptide in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 43-47,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.
58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.
59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.
60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.
- 15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.
63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.
64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.
65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.
66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
526	160397	Latrophilin-2	NP_036434.1	<p> MVSSGCRMRS LWFILVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDL RCPGSDVMIE SANYGRITDDK ICDADPFQME NTDCYLPDAF KIMTQRCNNR TQCVVTGSD VFPDPCPGTY KYLEVQYECV PYIFVCPGTL KAIWDSPCYI EAEQKAGAWC KDPLQAADKI YEMPWTPTRT DTLIEYASLE DFQNSRQTTT YKLPNRVDGT GFVVYDGA VF ENKERTRNIV KFDLRTRIKS GEAINYANY HDTSPYRWGG KTDIDLAVDE NGLWVIYATE QNNGMVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVRSVYQD NESETGKNSI DYTNTRLNR GEYVDVFPFN QYQYIAA VDY NPRDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSTTSQKQPM STTVAGSQEG SKGTPPPAV STTKIPPITN IFPLPERFCE ALDSKGIKWP QTQRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFA GDVS SSVRLMEQLV DILDAQLOEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KLVIYIRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RVYLTDPVLV TLPHIDPDNY FNANCSFWNY SERTMMGYWS TQGCKLVDTN KTRITCACSH LTNFAILMAH REIAYKDG VGH ELLLTVITWV GIVISLVCLA ICFTFCFR GLQSDRNTIH KNLCNLFIA EFILGIDK TKYAIACPIF AGLLHFFLA AFAWMCLEGV QLYMLVEVF ESEYSRKYY YVAGYLPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTFIL LNIIFLVITL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFNEETI VMAYLFTFN AFQGVFIF HCALQKKVRK EYKCFRHSY CCGGLPTESP HSSVKASTR TSARYSSGTQ SRIRRMWNTD VRKQSESSFI SGDINSTSL NQGHSNNAR DTSAMDITLPL NGNFNNSYSL HKGDYNDVSVQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLELTP VKPVI GSSS EDDAIVADAS SLMHSDNPGL ELHHELEAP LIPQRTHSLL YQPQKKVKSE GTDSYVVSQLT AEAEHDHLOSP NRDSL YTSMP NLRDSPYSPES SPDMEEDLSP SRRSENEIDIY YKSMPNL GAG HQLQMCYQIS RGNSDGYTIP INKEGCIPEG DVREGQMQLV TSL ccgcggctgg gagacagcga gccagagctt ggggtttgt gcgagagcca cggcgggggc tggggcagat ggcggcgalg gctgaaggct gcgctctgca acctgaaga gccgctgcat tgagagggcca ggagacaggga gaccgggtgcg atggcagagc ggggcccccg ccgctctggcc ggagccggccc ggctggccctg agccggccgga ggagcggggc tgcctctgcg cgtccatgga gcaiggggaa gggcgaact ccggagccgc gcgtccctgc gcgcggccgc cggactctg aaggagccga gcccgccggg accggcaggg aagagacccc cgctccagcc cgacagcccg ctggccgggg gcggcgagg acatcgagagg gcagcgagagc gagcagccgc ccgggagaggg ccggcgccggg agggcgccgc agcaatggcg ggcccgctag ggctgctctg ctctctgcc ctggggctgc tgggtcggc cgggcccagc ggccggccgc cgctctctg ccgcccggcc tgcagctgcg acggcgaccg tcgggtggac tgcctcgagg aggggtgac ggccggccgc ggaggggtcac gcgcttcac ocaagcgctg gatacagta tgaacaacat tactcagtg ccagaagag catttaagaa ctctcttt ctagaagag tcaatggc gggaacgac ctctcttta tcaaccaaa ggcttgcctt gggtgaaag aactcaaat tcaacgctc cagataatc agttgaaaac agtaccagct gaagocattc ggaggctgag tgccttgcgt tagatgccaa ccattatcc tcatgcccg aggacagttt tgaaggactt </p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490		A	Homo sapiens

528	160411	G Protein- Coupled Receptor GPR48	NP_060960.1	atgtatttaa taataataga agaagaaga ataaagctta gtctgtgtc ttuaaaatt aaaaatttta ctgtattcc atctatgggc tttagacctt ttactgggtg gagtctaa gttataatgt ttcaatagt ttittgaaca gtgtgtctaa tcaatagcaa acccactggc atattagttt ttctgaat actaaaaa tccagctaga ttgagttta ataatnaac tglacatact gtgcalataa tgaattttta tcttatgtaa attattttta gaacacaaatg tgggaatgtt ggctctgtt catttggtt aattaaagt accctcctaa ctatagtggc tgccagtagc agactgttaa atttggttt atatacttt tgcattgtta atagcttttg ttgtacatg tcatgtlaat aaaaacagaa tctttgata tcaaatcat gtattgtga taaatgtgg gaaggaatta ttacatgtg gtgttaatt tgaaggcca actattaca agtttaaaa attgcatca tglataatta cacatctgat aaataaaaa tcaatacttg gtaagaaact cctaattaaa aggttttc caaaaticag gtatagaat atttticatt ttattcatt aaaaaciaga ataacagata laaaaagtg ttaatcttg tglataagg tatgaatac aattatgtac tcatgtttt gaattattaa agttttaga aagcaaaaa a	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	MPGPLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLSFIHPKA LSGLKELKVL TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPEDSFE GLVQLRHLWL DDNSLJEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQC FDGLDNLETL DLSYNNLGEF PQAIKARPSL KELGFHSNSI SVIPDGA FDG NPLLRTHLY DNPLSFVGN ASHNSDLHS LVIRGASMVQ QFPNL TGT VH LESLTLTGTK ISSIPNNLCQ EQKMLRTL DL SYNNIRDLPS FNGCHALEEI SLQRNQYQI KEGTFQGLIS LRILDSRNL IHEHSRAFA TLGPITNLDV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNL R SLSVYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL ENEEHSQIII HCTPSTGAFK PCEYLLGWSM IRLTVWFIL VALFFNLLV LITTFASCTSL PSSKLFIGLI SVSNLFMGIY TGILTFLDAV SWGRKAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALS AF LGATVAGCFP LFHRGEYSAS PLCLPFTGE TPLSGFTVTL VLLNSLAFL MAVIYTKLYC NLEKEDLSEN SQSSMIKHVA WLFTNCIFF CPVAFFSFAP LITAISISPE IMKSVTLIFF PLPACLNPLV YVFPNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYYDCGMYSH LQGNLTVDCD CESFLLTKPV SKHLKSHS CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D aactggaagg gcaagcgtct ggcggccacg aacacttct caagcacctt gagtgaccac ggcttgcaag ctgggtggcgtg gcccccgag tccggggctc tgaaggcacgg ccgttgactt aagcgttgca tctgttacc tggagacct ctgagctctc accigtact tctccgctg ctctgcaca gagcccgggc gaggaacctt ccaaggatgca gggtccagaac agcacgggoc cggacaacgc gacgtgcag atgtctgcgga acccgggat cgcgggtggc ctgcccgtgg tglactcgtt gggtggcgcg gtcagatcc cgggcaact ctctctctg tgggtgtctgt gccagcgcat gggtggccaga tcccgtcgg tcatctcat gatcaactg agcgtcacgg acctgatgt ggccagcggtg ttgccttcc aaatctact ccatlgcaac cgccaccact gggtatcgg gggtctgtt tgcacgtgg tgaacgtggc ctttacgca aacatgtatt ccaatcatct caccatgacc tglatacggc tggagcgctt cctggggggc ctgtaaccgc tgaactcaca ggcctggcgcc cgcgtcgtt accgggtggc cgcgtgtgca gggaactggc tgcgtctctt gaccggcctg tcccgcctg ccgcaaccca tctcaactac ccgtgtcacg ccctgggcat calcaactgc ttgagcttcc tcaagtggac gattctccc agcgtggcca tgggtggcgtt gttctctc accatctca tctgtgtt cctcatccg ttgtgtalca ccgtgtggc ttacacggcc accatctca agctgttggc cacggaggag gcgcacggcc gggaagcagcg gagggcgcg gtagggcctgg ccgcgggtgg ctgtcggcc ttgtcacct	A	Homo sapiens

530	160435	LS160435 Receptor	LR80	<p>gcttcgccc caacaacttc gctcctctgg cgcacalcgt gtagccgctcg ttctacggca agagctctac ccacgtgtac aagctcacgc tctgtctcag ctgcctcaac aactgtctgg acccglttgt ttattacttt gcttccgggg aattccagct ggccttgcgg gaaatttgg gcttccggccg ggtgtccaga gacaccttgg acacggccgg cgaagagccgc ttctccgcca ggaaccacgic cgttcgctcc gtagcccggtg cgcaccciga aggtatgtgag gtagccacca ggcocggcct ccagtagggcag gtaggtgtgt tctgaagccc gggggcgccag ctggagagc cggggcgcca gcttggagga tccagggggc cagtagagag ccacgggtgc agaggtttag gtagaacagc tgcgttctc ccagcactg cagtagggccg gtagggggag gttccagggc ttattctc ccagcactg cagtaggccc ggttaggag ggtctccagg ctactcag gtagagagaaa caagcaagc ccagcagcgc acaggggtgt tttatctg cagtaggggc ctctgctct ctgtgtcag gtagcagctg tgcaccag ccggglaa ttgttatt tttttag agctggggc tcaocccga gctcttga cactctac accgtccat accggaggt ggaattcaa ccagccccc actgcctacc actgggtt tggatatt ctgtggcgga acgtggagcc ccatcccg cttcttcc tgcagacat gctctagc acactgtcc ataccggag gtagattt aaccagccc accgctacc cgaactgggt tctggatac ctctgggg gaaactgcgag cccattccc agctcttc cctgtctga tcttccctia gttgtgtt tggccttc cattctctc caggggttct ggtctccga gcccgggca cgcggaatt tctgttatt tcactcaggg gcactgtgtt tctgtgtt ggaattctc ttacagga ggccttgggg ctctgcag tcaactcact tccgtgcca cttccctca cacacacc cccctggc ggaattc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (HP63)	NM_013308	<p>MQVPNSTGPD NATLQMLRNP AIAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMNLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS ILTMTCSIVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL LLTALSPLAR TDLTYPVHAL GHITCFDVLK WTMLPSVAMW AVFLTFIL LFLPFVTV ACYTATILKL LRTEAHGRE QRRAVGLAA VVLLAFVTCF APNNFVLLAH IVSRLFYGKS YYHVYKLTLC LSCLNNCLDP FVYFASREF QLRLREYLGC RRVPRDLDLT RRESLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaaatggcc aaagggctt agtctctt gaaagctgc agcaaggct gctgaggtc acagaagata gcccaggtt ttgggtggg tttagatgt gattctgaga tcaagctgac tgaagctgaa tctgtggtt alacttacc agctacacaa ccttggagtc ttagaaatt ttctttca atagcagtc atcttact tccctcaga tgaacacag ttcttctc tgcocagtt ataaagatc ggagccattc acgtatttt ttattagt ttctgtt ggaattatg ggaattgt tgcacccgg gcttttacc agaagaatc gaalcacagg tgtgtgaga tctactaat taattgtct acagcgatt tctgtctac tctggcatta ccagtgaaaa ttgtgttga cttgggtgt gacacttggg agctgaagat attccactgc caagtaacag cctgcctcat ctatacaat atgtattat caattact cttagcatt gtagcagtg accgtgtct tcaagctgaca cacagctgca agatctaccg aatacaagaa cccggatttg ccaaaatgat atcaacoggt gtagggctaa tggctctct taaatggg ccaaaataga tgaattccat caaagacalc aaggaanaagt caaatgtggg ttagtaggag tttaaaagg aattggag aaattggcat tgcagcaaa atttcatg ttagcaata tttaaatt tctagccat catttaala tcaaatgcc ttgaattgc acagctctac agaacaag alaaagaaaa ttaccacaa ttagaaaaag ctctacaa calacttga gtagccagg gctacatcat atgttgtt ccttaccaca ttgocgat cccgtatcc ctgagccaga cagaagat aactgattgc tcaacagga ttactctt caaagccaaa gaggctacac tgcctggc tgtgtgac ctgtgttgg atccatctt gtagctac ctctcaaaag cttccgctc aaaggctcact ggaactttt cctcacciaa agagaccaag gctcagaaag aaaaatlaag atgtgaatat aatgcataaa agacaggatt ttgtgtcta ccaatttgg ccttactgga ccaataagt aattatgt tgaagata aaaaaaaa aaagcgccgc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1	<p>MTNSSFFCPV YKDLPEFTYF FYLVFLVGII GSCFATWAFI QKNTNHRCSV IYLNLLTAD FLTLALPVK IVVDLGVAPV KLKIFHCQVT ACLIYNMYL SIIFLAFVSI DRCLQTHSC KIYRIQEPGF AKMISTVVWL MVLLIMVPNM MIPIKDIKEK</p>	P	Homo sapiens

Homolog (H963)	Protein A	NM_019858	Homolog (H963)	Protein A	NP_062832.1
533	161024		534	161024	
SNVGCMEFFKK EFRNRWHLLT NFICVAIFLN FSAIILISNC LVIRQLYRNK DNENYPNVKK ALINLLVTT GYIICFVPHY IVRPYTL SQ TEVITDCSTR ISLFKAKEAT LLLA VSNLCF DPILYYHL SK AFRSKVTEIF ASPKETKAQK EKLRCENNA ggggggggag ggcggggcgag cggagccggg gggcccgagg gggccggcgic ggggagtcgg tctccatggc agtcctgggc gcagccggag agagccctgc cagggggcgc agcccccac ccaatccct gggggccatca ggaatctct gactggatcaa gaaacagagg caaaagagac ctggagatcc cagcalgggg accagaaaccc cccagccagc ctcatatlg ggaaagtgagc cagcttgcct gcccacaa ttgcagggat gcttaaggaa gggcccgatcc agtatgaagag ctgaggatg cctctgcga cctcagctct cctccctgc cctctacac tgcctcagc tgggtccatc atgcaatgct gaggcattggg gtgaagccgg gggcgagcccg cctctgcaca gggcgagggat tgtggggatc atgggagtggt ttgtgaatgg gggctccggg tgaagcctag ccccacccc cacaagctc aaagggggggg ggggctgaagg ataggaatggc tggggggggg gggggggggcag aggagggccc cctgcctcc aacgcattgt cctggcggc ctgtggggcic ctggcgctgc tggccaatgc ctggatcac ctcagcatct cggccaaagca gcaagaagcac aagccacggc agcttgcctct ctgcttcta gggggggcacac acaatcat ggcagctgic ccttcacca cctttggcgt ggtgtcagctg cgtgtcaggc cttctccaga ctatgactgg aacgagagta tctgaagagt cttcgtgtcc actactaca ccttggcgctt gggccatggc ttacccgtgc cctccctc ctacatgc atgtggatgg tgcctggcc cgtcaactac cgtctcagca acgccaagaa gcaaggcacg calgcctgtca tggggctgc gatgtcagc ttatctct ccacacggc ctccattggc tggcacaca gggcagggc ctactatggc cggcgcttgc agttcatagt ctcaagatc gggcctggct ttggcgttg cttaagctc ttgactatc gggggaattgt catgggtctgc gctgtgtgg ccalcactt ctacagaca ctgtggggcc gggcccgagg gggctggcag gggccggagag tggggggggg tggggggggacc aaagcggggg cttggggggc cttggggatcc cggccagctt ttggagttacc agccaattg gtggagggag cccaggggaa ggcggggtcc tgcctggag gctcggagtc tggcaagaca tccctggagg tccaactt ggttcaggcc atcgtcttc tctatgac actcagagg gttcccatc tgggtgtgag cttctctcc ctcaagtcgg actcggggcc cccctggag gtctggctgc tctgtgggg ctccalgca cagagctgc tcttccccc ctatctgc tctctggagc gctacccggc cgagctggc acagttgtgg agcaatgctt gggccatcatg tctgaaggag atggagatga cgaatggggg tgtcagctac atgcaagggg ccgaatttgc aaagtctgct ttgatgtcaa cggagacaca ggaacagggga ggcgggggacc cggccagggg aagctctgc ctggaaagca catctcttc cctctcttg agagatgca ctactacag gtcctccat cccgggtct gtccatgat gaaacaaca tctcttac cctcgggaa ccaggctctt tctgcaca gttgtcatcc tctgatgaca tccgggtctt cccagccag agccggggcc tggggggctt tctgaatc ctggggacaa gacacaggtt ggaaggacag gagagaggg aagagggctga aggtgggggg cggccagcc ttccgcaatt ctggagaggt ggggtcttgcg gttcaatgtg gggaacccca cggggctcgc gcttctcc ggaaggatc accacttca tgaatgagac accttgcct tctccagctg cctcacagg gcatctct cgtcggccc gggccactgg ccttcaccc cggccagct ccttggggc ccttggaggc aggagccgtg gactctctt gggactaag gcaaggagac gctgctcct gacgggggggt gaaagaaggt caagggtctg gggaaggatc tggggccag gcaacccat ctctccag ctgaacctgt gaggccagc aggcctgcg aactcaggg agaaagcctg agtgagtaac acctatctt gggccagagat agggcagcgc cctccagact ctggggggagac gggcgctaga tttggggctc agaaaggccct gctctctcc atccaaatga ccagatgcc tactcagct ccatcacccc tagcaaatg tattaaagt tgaagtgtg ccatgg	Homosapiens	Homosapiens			

Accession	Gene	Protein	Species	Sequence
535	Galanin Receptor GalR3	NM_003614	Homo sapiens	<p>GKRRSSLDGS ESAKTSLQVT NLVSAIVFLY DSLTGVTPILV VSFSLKSDS</p> <p>APPWMVLAVL WCSMAQTL LL PSFIWSCERY RADVRTVWEQ CVAMISEEDG</p> <p>DDGGCDDYA EGRVCKVRFD ANGATGPSR DPAQVKLLPG RHMLFPPLER</p> <p>VHYLQVPLSR RLSHDETNI FSTPEPGSLF HKWSSDDIR VLPQSRALG</p> <p>GPPEYLQQRH RLEDEEDEE AEAGGGLASLR QFLESGLVGS GGGPPRGPGF</p> <p>FREEITTFID ETPLPSTAS PGHSPPRRPR LGLSPRLSL GSPESRAVGL PLGLSAGRRC</p> <p>SLTGGEESAR AWGGSWGPGN PIFPQLTL</p> <p>toccaggfgc cgcctcgaig gggagaglgc lgaigocacg aacattlccac lggacagccc agggagagfign gggggccgfigg</p> <p>cagtgccigt ggtctttggc ctaacttcc tgcitgggcac agtgggcaat gggctfigfge lggcagfigct cctcagcgt</p> <p>ggcccgagfig cctggcagga gctggcagc accacggacc lgttcaoct caacttggcg gfigcfigacc tctcttcat</p> <p>ccfigctfge gfigcccttc agggccacct ciacacgctg gaigncctfge cttttggggc cctcgtctfge aaggccgfigc</p> <p>acctgctcat clactcacc aigtaccca gcaagctttac gctggcgtct gcttccgfigg acaggttacct ggcgcgfigcgg</p> <p>caaccgcfig cctcgcgcgc cctfgcgcag cgcgctaacg cccgcgcgc agtgggggctfge gfigfgecfigc lggcgggcgt</p> <p>cttctggcg ccttactca gctactacgg caaccgfigc laccggcgc lggagctctfge cgttcccgcc lgggagagacc</p> <p>cgcgcgcggc cgccttggac gfigggacct tgcctfcccgg clactctfge cccgfigctfge lggfigagctt ggcctacggcg</p> <p>cgcacacfig gcttctfign ggcgcgcgfig ggttcccgcg ggcgcgcgcgc ggcgcgagggcg cggcgagagggc cgcagggggcg</p> <p>cgcggggcg ggcctfign cggfigggcg gctctacggc cctfcccgg gctccgaggg gctccgacca cggcctcalt cfigtctct</p> <p>gfigtggccg cttggcttc agccggcca cctacgctfge cccgcttggcc tcaactggc lggcctacgc caactcctgc</p> <p>ctcaaccgc tgcctacgc gctcgcctgc cgcctcttc ggcgcgctt cgcgcgcctfge lggcgcgfigc ggcgcgcgacg</p> <p>cgcgcgcgc ccttgcgctgc cgttgcgccc gcttgcgccc gcttgcgccc gctccacccg cttgcgcccgg ggcgcgcgc</p> <p>clagcgggag gctcgtgctt ggttgcgccc agggcccgga gcccagggag ggcacccgctt acggcgggaga ggccttccgga</p> <p>ggaccggaa aaacctggc gctcggacgc cgcctt</p> <p>MADAQNISLD SPGSGAVAV PVVAFALIFLL GTVGNGLVLA VLLQPGPSAW</p> <p>QEPGSTTDLF ILNLA VADLC FILCCVPFQA TTYTLDAWLF GALVCKAVHL</p> <p>LYLTM YASS FTLA AVSVDR YLA VRHPLRS RALRTPRNAR AAVGL VWLLA</p> <p>ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV</p> <p>SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP</p> <p>HHALICFWY GRFAFSPATY ACRLA SHCLA YANSLNPLV YALASRHFA</p> <p>RFRLWPCGR RRRHRARRAL RRVPASSGP PGCPGDARPS GRLLAGGGQG</p> <p>PEPREGPVHG GEAAARGPE</p>
536	Galanin Receptor GalR3	NP_003605.1	Homo sapiens	<p>atgggcgctga ccccggagtc cccggagcagc ttccctggggc tggccggccac cggcagctctt gfigccggagc cgccttggcgg</p> <p>cccacagca accctcaaca gctcttgggc cagcccgacc gaggccagct ccttggaggga cctfgefiggc acgggcaaca</p> <p>ttgggactct gctfctggcc alggcgctfge tggcgctfge gggcaacgccc tacacgctfge tggctacccfge ccgcttccctg</p> <p>cgtfgeggfge cctccaltga cgtctacfig gtaacctfge cgtfggccga cctfctgctac cgtcctcagca tccctctcat</p> <p>cgtfggccacc tacgtacca aggagfiggca cttcggggac gfigggcctfge gctfctctt cggccttggac ttcttggacca</p> <p>tgcacggacg calcttcaag cttgacgctga tgaagcagcga gctcctacgtt ggcgctfge ggcgcgctfge caocgfigcag</p> <p>cgcgcccaagg gctacacgaa gctcctfge cttgggacctt gctcgtctggc gctcgtctfge acgcttgcgcc lgaictfgec</p> <p>calfgeggcfig gfigcgcgggg gctccaaagg cctfctgctfge cccgcttgggg gcccgcgcgc ccaaccgccc laocfigacgc</p> <p>tgtctctfge caccagcalt cggggggccc ggtctgctcat cgggctgctc tacgcgccgccc tggcccgccgc ctaccgcgc</p> <p>tcggcgcgcg cctcttcaa gcgggccccc cggccgggggg cgcgcgcgctt ggccttggfge cttgggcatgc lgtctctct</p>
537	Urotensin-II Receptor (GPR14)	NM_018949	Homo sapiens	<p>atgggcgctga ccccggagtc cccggagcagc ttccctggggc tggccggccac cggcagctctt gfigccggagc cgccttggcgg</p> <p>cccacagca accctcaaca gctcttgggc cagcccgacc gaggccagct ccttggaggga cctfgefiggc acgggcaaca</p> <p>ttgggactct gctfctggcc alggcgctfge tggcgctfge gggcaacgccc tacacgctfge tggctacccfge ccgcttccctg</p> <p>cgtfgeggfge cctccaltga cgtctacfig gtaacctfge cgtfggccga cctfctgctac cgtcctcagca tccctctcat</p> <p>cgtfggccacc tacgtacca aggagfiggca cttcggggac gfigggcctfge gctfctctt cggccttggac ttcttggacca</p> <p>tgcacggacg calcttcaag cttgacgctga tgaagcagcga gctcctacgtt ggcgctfge ggcgcgctfge caocgfigcag</p> <p>cgcgcccaagg gctacacgaa gctcctfge cttgggacctt gctcgtctggc gctcgtctfge acgcttgcgcc lgaictfgec</p> <p>calfgeggcfig gfigcgcgggg gctccaaagg cctfctgctfge cccgcttgggg gcccgcgcgc ccaaccgccc laocfigacgc</p> <p>tgtctctfge caccagcalt cggggggccc ggtctgctcat cgggctgctc tacgcgccgccc tggcccgccgc ctaccgcgc</p> <p>tcggcgcgcg cctcttcaa gcgggccccc cggccgggggg cgcgcgcgctt ggccttggfge cttgggcatgc lgtctctct</p>

538	161221	Urotensin-II Receptor (GPR14)	NP_061822.1	<p>ctggggcctgc ttctgcoct tctggcctgctg gacagctgctc gccagtlacc accaggccccc gctggggcccg cggagggcgc gcatcgtcaa ctactgacc actgtcctca cctacggcaa cagctggccc aaoccttcc tctacagct gctacacagg aactaccgc accactgcg cggccgcgctg cggggcccg gacggggggg agggccggggg cccgttccct cctgcagccc ccggcccgcc ttcaagcgt gttcggggcg ctcctgct tctgcagcc cacagccacac tgaagccctc gctcggccc caggccccc ggcccgcact ggcgccagg gtcocaggcc cccggcgtga MALTPESPSS FPGLAATGSS VPEPPGGPNA TLNSSWASPT EPSSLEDLVA TGTGTLLSA MGVVGVVGN YTLVVTCSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVTKWHFGD VGRVLFGLD FLTMHASIFT LTMSSERYA AVLRPLDTVQ RPKGYRKL LA LGTWLLALL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLLFATSI AGPGLLIGLL YARLARAYRR SQRASFRRAR RPGARALRLV LGIVLLFWAC FLFWLWQLL AQYHQAPLAP RTARIVNYLT TCLTYGNSCA NPFLYTLT TR NYRDHLGRV RGPGGGGRG PVPSLQPRAR FQRCGRSL SCSQPITDSL VLAPAAPAR APEGPRAPA atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacolgact gaacaggcac tgaactcaa giacctgggg cccagcaga cagagctgtt catgcccac tggccacat accctgctgat ctctgctgctg ggcctgctg gcaatgggct gaactgctg gctatcctg gccacaagg catggccacg cctaccaact actactctt cagcttggg gtctcggacc tgcctgctg gctggggg ctcgcccctg agctctatga gtagtggcac aactaccct tctctggg cgttggggc tgccttcc gacgctact gtttgaagtg gctcctctg cctcagctct caacgtact gcoctgagcg tggaaagctia tggggcgct gtcacccac tccaggccag gtcactggc agccggggcc atgtgcggcg agtgcctggg ggcgtctggg gcttgccat gctctgctc ctcgcccaca ccagctcga cggcatccgg cagctgcacg tggccggcg gggcccagtg ccagactcag ctgttgcat gctggctccg ccacggggcc tctacaact ggttagtgcag accaccggc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggcct gactgcggcg gggagggctg ctgctcagc agggaggccaa gggcaggggg tctgcagcag ccaggtccag ataccctgc aggtctccagc agcacgctc gggcccagga caagtgacca agatgctgtt tgcctctgct gtagtggctt gcaactggc ggcccgctc cagccgcat gggtcagtg gtagcctgct tccagtgga cagatggctt gcaactggc ttccagcag tgcacgtcat ctccggcat ttcttacc tgggctggc ggccacccc gtgtctata gccctatg cagccgcttc cgaagagact tccaggaggc cctgctcctc gggggcctgct gcatcgct cagaacccc cagactccc accgctcag caggatgacc acaggcagca cctgtgtga tgggggctcc ctgggcagct ggggtccacc cctggctggg aacgatggc caggggcgca gcaagagacc gatcactct ga MACNGSAARG HFDPEDNLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCM LVR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVL VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAAN VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQQT DPS agggtaacc ttgacaata cactgaaca tccaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaagtg aaatttcaat actccctcia tgaacacc latalccta taltccta tttctctg tggctcag gctaacagtg cagcctgtg gggtctgtgc cgccttca gcaagaanaa taaagccatc attttatga tcaactctc tggggctgac ctgctcatg tattatctt</p>	P	Homo sapiens
539	161249	G Protein- Coupled Receptor GPR66	NM_006056	<p>atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacolgact gaacaggcac tgaactcaa giacctgggg cccagcaga cagagctgtt catgcccac tggccacat accctgctgat ctctgctgctg ggcctgctg gcaatgggct gaactgctg gctatcctg gccacaagg catggccacg cctaccaact actactctt cagcttggg gtctcggacc tgcctgctg gctggggg ctcgcccctg agctctatga gtagtggcac aactaccct tctctggg cgttggggc tgccttcc gacgctact gtttgaagtg gctcctctg cctcagctct caacgtact gcoctgagcg tggaaagctia tggggcgct gtcacccac tccaggccag gtcactggc agccggggcc atgtgcggcg agtgcctggg ggcgtctggg gcttgccat gctctgctc ctcgcccaca ccagctcga cggcatccgg cagctgcacg tggccggcg gggcccagtg ccagactcag ctgttgcat gctggctccg ccacggggcc tctacaact ggttagtgcag accaccggc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggcct gactgcggcg gggagggctg ctgctcagc agggaggccaa gggcaggggg tctgcagcag ccaggtccag ataccctgc aggtctccagc agcacgctc gggcccagga caagtgacca agatgctgtt tgcctctgct gtagtggctt gcaactggc ggcccgctc cagccgcat gggtcagtg gtagcctgct tccagtgga cagatggctt gcaactggc ttccagcag tgcacgtcat ctccggcat ttcttacc tgggctggc ggccacccc gtgtctata gccctatg cagccgcttc cgaagagact tccaggaggc cctgctcctc gggggcctgct gcatcgct cagaacccc cagactccc accgctcag caggatgacc acaggcagca cctgtgtga tgggggctcc ctgggcagct ggggtccacc cctggctggg aacgatggc caggggcgca gcaagagacc gatcactct ga MACNGSAARG HFDPEDNLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCM LVR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVL VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAAN VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQQT DPS agggtaacc ttgacaata cactgaaca tccaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaagtg aaatttcaat actccctcia tgaacacc latalccta taltccta tttctctg tgggtcag gctaacagtg cagcctgtg gggtctgtgc cgccttca gcaagaanaa taaagccatc attttatga tcaactctc tggggctgac ctgctcatg tattatctt</p>	A	Homo sapiens
540	161249	G Protein- Coupled Receptor GPR66	NP_006047.1	<p>atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacolgact gaacaggcac tgaactcaa giacctgggg cccagcaga cagagctgtt catgcccac tggccacat accctgctgat ctctgctgctg ggcctgctg gcaatgggct gaactgctg gctatcctg gccacaagg catggccacg cctaccaact actactctt cagcttggg gtctcggacc tgcctgctg gctggggg ctcgcccctg agctctatga gtagtggcac aactaccct tctctggg cgttggggc tgccttcc gacgctact gtttgaagtg gctcctctg cctcagctct caacgtact gcoctgagcg tggaaagctia tggggcgct gtcacccac tccaggccag gtcactggc agccggggcc atgtgcggcg agtgcctggg ggcgtctggg gcttgccat gctctgctc ctcgcccaca ccagctcga cggcatccgg cagctgcacg tggccggcg gggcccagtg ccagactcag ctgttgcat gctggctccg ccacggggcc tctacaact ggttagtgcag accaccggc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggcct gactgcggcg gggagggctg ctgctcagc agggaggccaa gggcaggggg tctgcagcag ccaggtccag ataccctgc aggtctccagc agcacgctc gggcccagga caagtgacca agatgctgtt tgcctctgct gtagtggctt gcaactggc ggcccgctc cagccgcat gggtcagtg gtagcctgct tccagtgga cagatggctt gcaactggc ttccagcag tgcacgtcat ctccggcat ttcttacc tgggctggc ggccacccc gtgtctata gccctatg cagccgcttc cgaagagact tccaggaggc cctgctcctc gggggcctgct gcatcgct cagaacccc cagactccc accgctcag caggatgacc acaggcagca cctgtgtga tgggggctcc ctgggcagct ggggtccacc cctggctggg aacgatggc caggggcgca gcaagagacc gatcactct ga MACNGSAARG HFDPEDNLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCM LVR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVL VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAAN VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQQT DPS agggtaacc ttgacaata cactgaaca tccaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaagtg aaatttcaat actccctcia tgaacacc latalccta taltccta tttctctg tgggtcag gctaacagtg cagcctgtg gggtctgtgc cgccttca gcaagaanaa taaagccatc attttatga tcaactctc tggggctgac ctgctcatg tattatctt</p>	P	Homo sapiens
541	161251	Purinergic Receptor P2Y10	NM_014499	<p>atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacolgact gaacaggcac tgaactcaa giacctgggg cccagcaga cagagctgtt catgcccac tggccacat accctgctgat ctctgctgctg ggcctgctg gcaatgggct gaactgctg gctatcctg gccacaagg catggccacg cctaccaact actactctt cagcttggg gtctcggacc tgcctgctg gctggggg ctcgcccctg agctctatga gtagtggcac aactaccct tctctggg cgttggggc tgccttcc gacgctact gtttgaagtg gctcctctg cctcagctct caacgtact gcoctgagcg tggaaagctia tggggcgct gtcacccac tccaggccag gtcactggc agccggggcc atgtgcggcg agtgcctggg ggcgtctggg gcttgccat gctctgctc ctcgcccaca ccagctcga cggcatccgg cagctgcacg tggccggcg gggcccagtg ccagactcag ctgttgcat gctggctccg ccacggggcc tctacaact ggttagtgcag accaccggc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggcct gactgcggcg gggagggctg ctgctcagc agggaggccaa gggcaggggg tctgcagcag ccaggtccag ataccctgc aggtctccagc agcacgctc gggcccagga caagtgacca agatgctgtt tgcctctgct gtagtggctt gcaactggc ggcccgctc cagccgcat gggtcagtg gtagcctgct tccagtgga cagatggctt gcaactggc ttccagcag tgcacgtcat ctccggcat ttcttacc tgggctggc ggccacccc gtgtctata gccctatg cagccgcttc cgaagagact tccaggaggc cctgctcctc gggggcctgct gcatcgct cagaacccc cagactccc accgctcag caggatgacc acaggcagca cctgtgtga tgggggctcc ctgggcagct ggggtccacc cctggctggg aacgatggc caggggcgca gcaagagacc gatcactct ga MACNGSAARG HFDPEDNLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCM LVR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVL VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAAN VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQQT DPS agggtaacc ttgacaata cactgaaca tccaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaagtg aaatttcaat actccctcia tgaacacc latalccta taltccta tttctctg tgggtcag gctaacagtg cagcctgtg gggtctgtgc cgccttca gcaagaanaa taaagccatc attttatga tcaactctc tggggctgac ctgctcatg tattatctt</p>	A	Homo sapiens

542	161251	Purinergic Receptor P2Y10	NP_055314.1		P	Homo sapiens
MANLDKYTET FKMGSNSTST AEYCNVNTVNF KFOYSLYATT YLIFIPGLL ANSAALWVLC RFISKKNKA IFMNL SVAD LAHVLSPLR IYYTISHHWP FORALCLLCF YLKYLNMYAS ICFLTICISLQ RCFFLLKPFAR ARDWKRRYDV GISAAIWIV GTACLPFIL RSTDLNNKS CFADLGKQM NAVALVGMT VAELAGFVIP VIIAWCTWK TTISLRQPPM AFQGISERQK ALRMVFMCAA VFFICFTPYH INFITYTMVK ETIISSCPVV RIALYFHPFC LCLASLCCLL DPILYYFMAS EFRDQLSRHG SSVTRSLRMS KESGSSMIG MATTSATSTV NTSSLATTMT TNFTSLTTSV VTTIASLVPS TNSEDDYYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLFGLLGN ILVVIIVRY MKIKNLTNML LLNLAISDLL FLTLTFWMH YIGMYHDWTF GISLCKLLRG VCYMSLSYQV FCILLTVDR YLAVVYAVTA LRFRITVTCGI VTCVCTWFLA GLLSLPERFF HGHQDDNGRV QCDPYPEMS TNVWRRRAHVA KVMILSLILP LLIMAVCYVY IRRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIIVLL STFHA TLNL QCALSSNLDM ALLITKTWAY THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCKYTFPL SGDGEGKEGP TRI						
543	161293	G Protein-Coupled Receptor Ls161293 [Herpes virus]	NP_042597.1		P	Equine herpesvirus 2
gagagaaacc cgatcgaccg cggccacggc gggtccocga cctgcgcggt cctgcggggc gg-cgclgggt cggggcactc gggclggccc ccactggct cgcocgcggg gaactcgac gcgclggccc ggclgggggg gcgcgcgcgc gcgcgcgcga ggaaactgac ctctccccc gccccgaccg cgtcccccgc cccggccccg tggclggacc cctgcgcgcg ccccggcccc ggcaccggt tcttcgacc gccctggggc ggclggcgtc ggclggcggc ctacgcgcgc ggclgggggc tggcggcgct cggcaaccic gggclgact ggatcggtc ggccacaag cgcacggga cggccacca ctctcttc cggaaactgg cttcgcoga gcgcgcga gcgcgcga acgcgcgt caactcacc tacgcgcgc acggagagtg gtaactggc gccaactc gccgcttcca gaactctc cccatcacgc ccglttgcg cagcatcac tcatcgacc ccatcgcggt ggcagatcac atggccatta ttgacccct gaagccagg ctgctcgca cggccacccc gatcgcat ggaaagcatc ggatcggc atttact gacttctc agtctcga ttccaaatc aaagtcac gcggccgtac tcttggcac gllcaglggc cagaaggctc aaggccaat ttacgtacc acatgactc catcgctc gttactgt tcttggct calcatgggc atcacata ccatagtg aatcagctc tggggagggg agatccagg agaacctgc agaacctgc atcgctgc atcgctgc atcgctgc cggagagtg taanaatgat gatcagctc gggtggactc ttgcatcgc ctggctggcc latcacatc acttcatc caccggac tatcagcagc tgaacagggg gaataatc cagcagctc accctggcag ctctggcgg gccatggctc cgaacatga caaccacac atctactc gttcgaataa gagattctc gclggctca agaggccctt ccgclgggtc cttctatcc agclctccag ctacgacgag ctggagctca aagccacag gctccacca atgcgacaga ggcgcgtala cacagtgaca agaatgag ccatgagcgt ggtatccgac tccacgag ggagacagtc caggtccagt caccagaa gaaggagcagc cagagacga						
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679		A	Homo sapiens

[illegible]

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	<p>ttaaatataa taataatcat atgaataat</p> <p>MASPAGNLSA WPGWGWPAPA ALRNLTSPPA PTASPPAPS WTPSPRPGPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIWIVLAHKR MRTVTNSFLV NLAFADAAMA ALNALVNFY ALHGEWYFGA NYCRCQNFPP ITAVFASIYS MTAIAVDRYM AIDPLKPRLL SATATRIVIG SIWILAFLLA FPQCLYSKIK VMPGRTLQYV QWPEGSRQHF TYHMIIVLV YCFPLLIMGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVVKMMIIV VTFALCWLPY HIYFILTAY QQLNRWKYIQ QVYLASFULA MSSTMYPNII YCCLNKRERA GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDS NDGDSARSSH QKRGTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyll Leukotriene CYSLT1 Receptor	NM_006639	<p>atggatgaaa caggaaatct gacagatctc tctgccatc gccatgacac tatgatgac ttcgcgaatc aagtgatc caactgtac tctatgatc ctgttagg cttctggc aatggcttg tgcctatgt cctataaaa acctatcaca agaatgacgc ctccaagta tacaatgaa attagcag agcagatcct ctgtgtgt gcaacatgct tctcgtgtg gtcataatg ttcacaaagg catttgctc tttgtgact tcttgctgc cctcagcacc tatgcttgtt atgcaacct ctatgtagc atctcttta tgacagccat gagcttttc cgg'gcatlg caatgtttt tccagccag aacataatit tggatcaca gnaaaaaagc aggttgtgt g'gtaggtat ttgatttt g'gatttga ccaatcctc attcaatg gccaaaccac aaaaagatga gnaaaaaatc accaagtgct ttgagccccc acaagacaat caaactaaaa atcatgttt ggcttgcat tatgtgcat tgttgttg cttatcacc cctttgta ttataatgt ctgtacaca atgatcatt tgccttact aaaaaatca atgaaaaaa atctgcaag tcaataaaa gctataggaa tgcataagtt ogtgaocgt gctttttag tcaatcat gccataatc attcaagta ccaatcact tcaatgta cacaatgaaa caaaocctg tgattctgc ctgaatgc agaagtcgt ggataaac ttgtcttgg ctgatacaa ttgtgtctt gacccctcc tatattctt ttctgggggt aacttttaga aaagctgtc tacaacaga aagcattct tgcacgct gactatgta ccagaaaaa aggcctcttt gccagaaaa ggaagaaaa tatgtaaatg atag</p> <p>MDETGNLTVS SATCHDTIDD FRNQVYSTLY SMISVVGFFG NGFVLVYLIK TYHKKSFAFQV YMINLA VADL LCVCTPLRV VYVYHKGIVL FGDFLCRLST YALYVNLVCS IFFMTAMSF RCIATVFPVQ NINLVTQKKA RFVCVGIWIF VILTSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVVLVH YVSLFVGFII PFVHIVCYT MIILTLLKKS MKKNLSSHKK AIGMINVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCCF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKASLPEK GEEICKV</p>	A	Homo sapiens
547	177168	Cysteinyll Leukotriene CYSLT1 Receptor	NP_006630.1	<p>ccacgctcc gcggctgca cgtctgcaac ggcatcggtc caggctccgg ctctctcc cgtcagcag ccgcgtgoc ggccaccatg ggctcgatc cggcccccgg cccctcgga cgcctgtctc tggcccccgg cccggccccc cggagccatgc gctggggccc ccagggggaa accgagccc ggcaaggggc agggctccgg ccggggggcc ctcggggccc ccagctc cccggggcc ctgcccggc tccggggcc gcg'gagctt gcggggggccat ggagcgcgcg ccggccgagc ggccgctgaa cgtctggggg gcgcggggg gcg'gagcggc ggccggggggc ggcttcggc agccggacc ggcggtctgg ccgcgtcat ggccgtctc atcggggca cgggtctggg caacgcgtc g'catgctc cctcgggc cgactcgagc ctcggcacc agaaacaact ctctcgtc aaactcgca tctcgacti cctcgggc ggctctgca tccacatgta tgaacctac g'gctgagcag gcgcgtgagc ctccggggc ggccctcgca agctgtggt ggtaggggac taoctgtgt gcaactctc tgcctcaac atcg'gctca tcaagcaga ccgctctctc tgggtaacc ggccggtctc ataccggggc cagcagggg acacggggc ggcaatggc agaatgctc tgggtgggt gctgggctc ctgctgacg gaccagccat ctgagctgg agatgacct ccggggggcag ctccatccc ggaggggccat gctatggcga gttctctac</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232		A	Homo sapiens

549	177191	Histamine H3 Receptor	NP_009163.1	<p>aactgggaact tctctacac ggcctccacc caggaggtct ttacgggtct cctcaggctc accctcttta accctcagcat ctactgaaac atccaggagc gcaaccgctt ccggcttggat ggggctctgag agggcagccgg ccccgagccc cctccgaggg cccagccctc accaccccca ccgctctggct gctgggggctg ctggcagagag gggcagagggg agggccatggcc gctgcacaggg tatggggggg gtagagggcc cgttagcgct gaggccgggg agggcgaacct cggggggggg gggggggggg gctccggggg gctccggggg ttacccacc tcagctccg gcagtcttc gagggggacct gaggggggc gctacacaa gggggggggc aaggccggctcc aaggccggctcc cgtctctggc ctggctggg aagggcagta agtaggtgtt ccaggcttc acccagggct ttggggctgtc ttggggcagag aaggggggcca agtcggctggc cgtcagctg agcatctgtt gggcccatc agggcccatc agggctctga tgaatccg gggccggctc cagggggacct gctccctga ctactgttac gaaacctct ttgggtctct gggggggccaac ttgggtctga accctgtct ctacccttg tggccacca gcttcggccg gggccctcac aagctgtctt gggcccgagaa gctcaaaac cagccccaca gtctccggga gcactgtctg aagtaggtg cccaccagag cctccctcag ccaagctct ccaagccct ccaagccct gctccggg catctggccc ttgctccccc taccgggctc gttcccccag ggggtggagccc cggcggtctt gggggctct cttaatggca cggcaggccac cctggccatg agggcgcttc ctgggttggc caggagggggcc ctacatggct ggaactggaggg ctggggggggcc ggccctggcc ccacatct ggtccaccg ggggaggggaca gctcggaggg cccagagatg ctggccacc cctgtctgtg ccaccccttc gcagttactt gttgggttc ttcccaagc aagcaacctg gtagctcca gggctctc cctagcagtt tggctctgca cgtgcacaca cctgcacaca cctgcacac cctctctcc caccactct ctctggccc aagggagag ccaagggacct gcttggct cctctgtct ctggcataag cctcaggctt gggcccttca cccctctcc caccactct ctctggccc aagggagag aagggggcccta ggaaacctga agctgtctc ttcttcca ttctgggggt ttccagaaag atgaaagagaa aacatgctt gtagaactga tggctgggg atggttaac aagtagagaca aatgtctga gggagctcag gctggatggg cagggttgggg cttccacagcc cttccctc cgttaaggct tccggctgag ctgtccagc ttgtcttgg caccggctct ctggggctcac accagccctt gttggccatg ctggccggcc cactgttt gctacaccg gaccctgggg ggtgttggg aggaagggggg ccggctgggg ccggggggct caaggctg agggggggc caggagaggt gcccggggcag gggcgcttc gcatggtct gtagccctt gcatcgctt ctgcatgct ctgtctgt gcccgtgct ctggctgca aacgtggag gcaataaa ggtatttt taaaaaaa aaaaaaaaa aaaaaaa</p>	P	Homo sapiens
550	177387	G Protein- Coupled Receptor ORF4	NM_020155	<p>MERAPPDGPL NASGALAGDA AAGGARGFS AAWTAVLAAL MALLIVATVL GNALVMLAFV ADSSLRTQNN FFLNLAISD FLVGAFCTPL YVPYVLTGRW TFGRGLCKLW LVVDYLLCTS SAFNVLSY DRFLSVTRAV SYRAQQGDR RAVRKMLLVW VLAFLLYGPA ILSWEYLSGG SSIPEGHYCA EFFYNWYFLI TASTLEFFTP FLSVTFNLS IYLNQRRTR LRLDGAREAA GPPEPEAQP SPPTPGCWG CWQKGHEAM PLHRYGVGEA AVGAEGEAT LGGGGGGGSV ASPTSSGSS SRGTERPRSL KRSGKPSASS ASLEKRMKMV SQSFTQRFRL SRDRK VAKSL AVVSIFGLC WAPYTLMLII RAACHGHCVP DYWYETSFVL LWANSAVNPV LYPLCHHSFR RAFTKLLCPQ KLKIQPHSSL EHCWK</p> <p>agcgggcgct ggcctgaccc gacgggtatc agccggctct cccctccac cccaggagca calgaacgac cgaaggcagg gagctctc ctggggctc tgcctcccc catctggc ttggggtag gcccaggagag gtagacccc caacccctat ccggctctc ctggagaaaa gtagactgccc ttccalgccc ctgagtaggg ggcctggggc caggctgctt gtttcccca agggcaaggg tctctgtt gaggaggggg gctgtgagc caaatctt ttctctga ggcggcccatc tccctctg caccctgcaa ttccacccc tccglatia ttccctgtt cccggcgaca gttccctt gttgtctcc gggatcagg cctccctcc tgacatggag agtaacctgt ctggccgtgt gctgtctgccc gggctgggtc ctggcgctcc accctgtgt accctggggc tgacagctc ctacacacc ctgtatggccc ttctctctt cctgtctat gcccagctt ggtgtgtgt ctgtatggg cacaagctc tcagctatca gacgggtgtc ctggccctct gttgtctgt gggccggctt gtagacacc ttctctct ctacttccga gatactccc</p>	A	Homo sapiens

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	<p>ggcgcaacgg cctggggccc ttgccttctt ggccttctcta ctgctgcccc gtcgtgcgcg agtcttcac ctggacgctt atgaaacctt accttggocaa ggtgtgtgtc aaggccaagg tgaagcgtcg ggcggagatg agccgaggtt tgcctgctgt ccgagggggc ttgtgggggg cctgcgtgctt ctttctgtgt gtagacgtgc tgtgtgctgt gctctccat cggcgcgac acccttgggg cctgtctt gtccgctcc tggtagcgga ctcccgttc gtcatctgc cgtctgtct tgcgtgcctgc cttgtgcctgc tgcgacggcg ggcgcctcca ctgacacta cctggaggcc aaggttagggc tgcgacatg atgocacgt gcttttggg tctctcggca gcggttcca ggggttagg</p>	P	Homo sapiens
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	<p>MESNLSGLVP AAGLVPAALPP AVTLGLTAAY TTL YALLFFS VYAQLWL VLL YGHRKLSYQT VFALCLLWA ALRTLFSFY FRDTPRANRL GPLPFWLLYC CPVCLQFFTL TLMNLYFAQV VFKAQVKRRP EMRSGLLA VR GAFVGASLLF LLVNVLCVAVL SHRRAPQWAL LLVRVLVSDS LFVICALSLA ACLCLVASGR PPLASTWRPR</p> <p>ctctttaaa ttctttcta ggaatgtcac ttcttctcca caatgaatga gtagacat gacaagcaca tggactttt ttalaatagg agcaacacgt atactgtcga tgaatggaca ggaacaaagc ttgtgatgt ttgtgtgtt gggacgttt tctgcctgtt tatttttt tctaatttc tggatcgc ggcagtgatc aaaaacagaa aatttcatt ccccttac taccgttgg ctaatttagc tgcgtccgat ttcttgcgt gaaatgocct tgaattccgt algtttaaca caggccacgt ttcaaaaact ttagactgtca accgttgggt tctccgtcag gggcttctgg acagtagctt gactgtccc ctaccaact tgcgtgttat cgcctggag aggcacatgt caatcatgag gtagcgggtc calagcaacc tgaccaaaaa gagggtgaca ctgtcattt tgcgtgtctg gggccatcgcc attttatgg gggcggtccc cacatgggc tggaaatgcc tctgcaacat ctgtccctgc tcttccctgg ccccattha cagcagggagt taccttgggt tctggacagt gtccaaocc alggccttcc tcatatgtt tgggtgttac ctgcggatct acgtgtacgt caaagaggaaa accaactgt tgcctcga tacaagtggg tccatcagg cccgggaggac accatgaag ctatgaaga cgtgtgtagc tgccttaggg gctgttgg latcgtggac cccggcctgc gtaggtctgc tctcgtacgg cctgaactgc aggcaggtgt gctgtcagca tgtgaagaag tggttcctgc tgcctactoc gtcgtgaacc ocatactca ctctacaag gacgaggaca tgaatggcac calgaagaag atgatctgt gcttctca gtagaagccca gtagggcgtc ccctcgtcat cccctcaca gctctcaga gtagtagcac aggcagccag tacaatagg atagtattag ccaagggtgca gctgtcaata aagcacttc ctactctg gtagctctc gggccaccca ggtgtgact gcttagg</p>	A	Homo sapiens
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	<p>MNECHYDKHM DFFVNRNTD TVDDWTGTL VVLCVGTFF CLFIFFSNL VIAAVIKNRK FHFPFYLLA NLAADFFAG IAYVFLMNT GPVSKTLTVN RWFLRQGLLD SSLTASLTNL LVIAVERHMS IMRMRVHSNL TKKRVTLIL LVWAIAFMG AVPTLGNCL CNISACSSLA PYSRSLVF WTVSNLMAFL IMVVVYLRV VYVKKTNVL SPHTSGSISR RPTPKLMKT VMTVLGAFVV CWTPLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IISYKDEDM YGTMKKMICC FSQENPERP SRPSTVLSR SDTGSQYIED SISQAVCNK STS</p> <p>atgggcccc gcgaggcgt gctggcgggt ctctggtga tggatcggc cgtggcgtc ctatcaacg cactgtgtct gcttgtgc gctacagcg ctgagctccg cactgagcg tcaaggctcc tcttggtaga tctgtctc ggcacctgc tgcggcgcc gctggacatg cctctacgc tgcctgggt gtagcgcggc cggacacgt cggcgccggc cgtatgocaa gtcattgggt tcttggacac ctcttggcg tccaacggc cgtctgagct ggcggcgtc agcgagacc agtggcgtgc agtggcctt ccactgcgt acgocggacg cctgcgaocg cgtatgocg gcttgcgtt gggcgtgtcc tggggacagt cgttggcct ctacggcgt gcatgtgct gctgttggct tggctacagc gctccctc cgtcccttc gctgcgtc ccgcccagc ctgagcgtcc ggccttgcga gcttcaocg ccacgtcca tgcctggggc ttctgtctgc cgttggcgt gctctgctc acctgctcc aggtgacccg gggggcacgc agacacatgc agcgcatgga caocgtcac atgaaaggcg</p>	P	Homo sapiens
554	189873	G Protein-Coupled Receptor GPR78	AF411107	<p>atgggcccc gcgaggcgt gctggcgggt ctctggtga tggatcggc cgtggcgtc ctatcaacg cactgtgtct gcttgtgc gctacagcg ctgagctccg cactgagcg tcaaggctcc tcttggtaga tctgtctc ggcacctgc tgcggcgcc gctggacatg cctctacgc tgcctgggt gtagcgcggc cggacacgt cggcgccggc cgtatgocaa gtcattgggt tcttggacac ctcttggcg tccaacggc cgtctgagct ggcggcgtc agcgagacc agtggcgtgc agtggcctt ccactgcgt acgocggacg cctgcgaocg cgtatgocg gcttgcgtt gggcgtgtcc tggggacagt cgttggcct ctacggcgt gcatgtgct gctgttggct tggctacagc gctccctc cgtcccttc gctgcgtc ccgcccagc ctgagcgtcc ggccttgcga gcttcaocg ccacgtcca tgcctggggc ttctgtctgc cgttggcgt gctctgctc acctgctcc aggtgacccg gggggcacgc agacacatgc agcgcatgga caocgtcac atgaaaggcg</p>	A	Homo sapiens

555	189873	G Protein- Coupled Receptor GPR78	CAC3404.1.1	<p>icgocgigt cgcgcacgtg caocccagtg tgcggcacgg cigtccalc cagcagaagc ggccgcggcca ccgcgccacc aggaaagattg gcatigtat tgcgaacttc ctaictgt tggcccgta tgcaltacc aggciggggg agtcgtgoc cttcgtacc gtagacggcc agtggggcat cctcagaag tgcctgact acagcaagc ggtggccgac ccgttcacgt actcttgt ccgcggccg ttcggccaag tccggccgg calgggac cggctgctga agagaacccc gcggccagca tccaccatg acagctctt ggatggcc ggcatggc accagctgt ggaagaaacc ccgcggccag cgtccacca caacggctt gggaacag agaaigt cgcctgca gacacact ga MGPGEALLAG LLVMVLAVAL LSNALVLCC AYSaelRTRA SGVLLVNLsl GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSVAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGYs SAFASCSLRL PPEPRPFA AFTATLHAVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTvt MKALALLADL HPSVRQRLI QKRRRRHRAT RKIGIAIATF LICFAPYVMT RLAEVpFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167	<p>atggaaaaac ttcaaatgc ttctggatc taccagcaga aactagaaga tccattccag aaacacctga acagaccga ggagtatctg gcttctctt gggaacctg gcgcagccac ttctctcc ccgttgtgt gggtatgtg ccaattttg tgggggggt catggcaat gctctgtgt gcttggtgat tctgcagcac caggtatga agacggccac caactactac cttcagoc tgggtctc tgaactctg gcttgtcc ttggaaigcc cctggaggtc tatgatgt ggccaacta cctcttgg ttcggggccg tgggtctgta ctcaagagc gctcttgg agaccgtg ctcgctcc atctcagca tcaocacgt cagctggag cgtacgtgg ctaoctaca ccgttccg gccaaatgc agagcagccc gcgcggggcc ctacgatcc tcggcatgt cggggcttc tccgtctt tctccgcc caacaccgc atocattgca tcaagtcca ctactccc aatgggtcc ttgcccagg ttggccacc tgaaggatca tcaagcccat gtagatctac aaatcaica tccaggtcac cctctcta ttctactcc tcccatgac tgcacagt gctctact acctatgg acctatggc actcagctca agagaagaca aatctctga ggcaatgaa gggaatgcaa atattcaag acctgcaga aaatcagca acaagatgt gtttgtgt gttatgtg ttgtatctg ttggccccc ttccacatg accgacttt ctacgttt ggaggaggt ggagtgaac cctggcgt gtttcaacc tctccatgt ggtgtaggt gtcttctt acctgagtc agctgcaac cccattatc ataacctact gcttcggcc ttccagcag catccagaa tgtatctt tctttocaa aacagtggca ctccagcat gaocacagt tgcacctgc ccagcggaaac atctctga cagaatgcca ctttgggag ctgaccgaag alatagtcc ccaattcca tgcagctac caatgcaaa ctctacact ccaacagccc tctctaga acagatgca agaaacaaat atcaagctt ccacttaac aaaaactga</p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1	<p>MEKLQNASWI YQKLEDPPFQ KHLNSTEEYL AFLCGPRRSH FFLPVSVVYV PIFVVGvIGN VLvCLVILQH QAMKTPTNVY LfSLAVSDLL VLLGMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSITVSVE RYVAILHPFR AKLQSTRRA LRILGIVWGF SVLFLSPNTS IHGKFHYFP NGSLVPGSAT CTVIKPMWY NFIIQVTSFL FYLLPMTVIS VLYYLMALRL KKDKSLEADE GNANIQRPCR KSVNKMFLVL VLVEAICWAP FHDRLFFSF VEEWSESLAA VFNLVHVVSg VFFYLSAVN PIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFE LTEDIGPQFP CQSSMHNshL PTALSSEQMS RTNYQSFHN KT</p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108	<p>atgctggcag cgccttgc agacttaac tccagcaga tgaatgtc cttgtcac ctccacttg ccggagggtta cctgcccct A gattccagg actggagaac calcatccg gctctctgg tggctgtctg cctggagggc ttctgggaa acctgtgtgt</p>	A	Homo sapiens

Ls189884

559 189884 G Protein- ENSMPRT11140 P Homo
Coupled Receptor 67 sapiens
Ls189884

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560 189895 G Protein- NM_031936 A Homo
Coupled Receptor GPR61 sapiens

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561 189895 G Protein- NP_114142.1 P Homo
MESSPIPQSS GNSSTLGRVP QTPGPSTASG VPEVGLRDVA SESVALFFML

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccaccgg gcagctggcc ccacgggaagc acgggctcagc acgtggggg gctggcaccac cttcaggtag cgggttgagtg cgatggctgt gagggaagaca acgctggccg tgggggtggf ggacagacatg aagagggtga ctttgcaggc agcagcccca aagcccaagg tctcaggag gaggtagtag tccacggga ggagcaggtt gctgacatgg aggaagtcag cggccaccag gctgaccagg aacaccgtgt tggaggcca ggcccgctg tggatgcaga agatgaagag ggccaaactg ttcccacca ggccaggac aaactcagg gcagagatg gtgcaggaa ggacacacc agcgagggaag aggtggggg gcaggggccct ccaggagcc cccaccagt ggtaaggc</p> <p>MELHNLSSPS PSLSSSVLP SFSPSPSSAP SAFTTVGSS GGPCHPTSSS LVSAFLAPIL P Homo ALEFVLGLVG NSLALFICI HTRPWTSTNTV FLVSLVAADF LLISNPLRVL sapiens</p> <p>DYLLHETWR FGAAACKVNLFMLSTNRTAS VVFLTAJALN RYLKVVPQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLL STFGSPSCLS YRVGTKPSAS LRWHQALYLL EFFLPLALIL FAIVSIGLTI RNRGLGQAG PQRAMRVLAM VVAVYTICFL PSIIFGMASM VAFWLSACRS LDLCQLFHG SLAFTYLSNV LDPVLYCFSS PNFLHQSRAL LGLTRGRQGP VSDSSYQPS RQWRYREASR KAEAIKLV QGEVSLEKEG SSQK</p> <p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgctggg gatcaggca tggaaagcaa ctggcaaaa A Homo ctggctggca gcagaggctg ccttggaaa gtaacacti tccattttt algggatga gtctgttg ggagtcctg gaaataccat sapiens tgtgtttac ggctacatct tctctgaa gaactggaa agcaglaala ttatctcti taactctct gtctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcacalga aactggatat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacc talaagca tctcttct cactttatc agcatagatc galactgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtgtgcta tttaatc ctggccatt tgggtttag taacctlaga gtactaccc atacttccc ttlaaatcc tgrtaact gacaalgca ccactgttaa tgaatttga agtctggag acccaacia caactcatt tacacalgt gttaacact gtggggtc ctatctc tttttgat gtgtttcti tanaacaa tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctggcc ctgaaagc ctctcaact ggtaacalg gcagtggttaa tctctctg gcttttiaca ccciatcag tcatgggaa tgtgaggatc gcttcagcc tggggagtgt gaagcagiat cagtgctact aggtctgcat caactccti tactatga cagggcctt ggctttctg aacagtga tcaacctgt ctctattt cttttggag atcattcag ggacalgtctg atgaatcaac tgaacacaa ctcaaatcc ctatctct ttacagatg ggctcagaa ctctactt catcagaga aaagtgaagg gcttgtgaa cagatgtc tacagalga tctgttagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat tlaacctga tcaaaagca agtgtacc agatgtg aaaaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaagagct ttcaatca gtcacaaaat ggaaagata. taaaagcaaa agtgtctgc attgatcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYIFSLKN P Homo WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA sapiens</p> <p>NLYTSILFLT FISIDRYLH KYPFREHLQ KKEFAILISL AIWVLVTLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMLCTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgcgcgc gcctggccctc gcttggagga aaagagactct tgggaagat A Homo ggagactcatt gtcatttcc cagaatgtg ttccagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact sapiens ctgcatctct gcttgcactt tcatcttact tgaacctatg gctctctggc cagtgtgtgac tgcgttccat accggggacat ccaacaaac</p>
566	189904	Purinergic Receptor P2U2 (GPR91)	NM_033050	<p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgctggg gatcaggca tggaaagcaa ctggcaaaa A Homo ctggctggca gcagaggctg ccttggaaa gtaacacti tccattttt algggatga gtctgttg ggagtcctg gaaataccat sapiens tgtgtttac ggctacatct tctctgaa gaactggaa agcaglaala ttatctcti taactctct gtctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcacalga aactggatat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacc talaagca tctcttct cactttatc agcatagatc galactgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtgtgcta tttaatc ctggccatt tgggtttag taacctlaga gtactaccc atacttccc ttlaaatcc tgrtaact gacaalgca ccactgttaa tgaatttga agtctggag acccaacia caactcatt tacacalgt gttaacact gtggggtc ctatctc tttttgat gtgtttcti tanaacaa tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctggcc ctgaaagc ctctcaact ggtaacalg gcagtggttaa tctctctg gcttttiaca ccciatcag tcatgggaa tgtgaggatc gcttcagcc tggggagtgt gaagcagiat cagtgctact aggtctgcat caactccti tactatga cagggcctt ggctttctg aacagtga tcaacctgt ctctattt cttttggag atcattcag ggacalgtctg atgaatcaac tgaacacaa ctcaaatcc ctatctct ttacagatg ggctcagaa ctctactt catcagaga aaagtgaagg gcttgtgaa cagatgtc tacagalga tctgttagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat tlaacctga tcaaaagca agtgtacc agatgtg aaaaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaagagct ttcaatca gtcacaaaat ggaaagata. taaaagcaaa agtgtctgc attgatcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYIFSLKN P Homo WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA sapiens</p> <p>NLYTSILFLT FISIDRYLH KYPFREHLQ KKEFAILISL AIWVLVTLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMLCTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgcgcgc gcctggccctc gcttggagga aaagagactct tgggaagat A Homo ggagactcatt gtcatttcc cagaatgtg ttccagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact sapiens ctgcatctct gcttgcactt tcatcttact tgaacctatg gctctctggc cagtgtgtgac tgcgttccat accggggacat ccaacaaac</p>
567	189904	Purinergic Receptor P2U2 (GPR91)	NP_149039.1	<p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgctggg gatcaggca tggaaagcaa ctggcaaaa A Homo ctggctggca gcagaggctg ccttggaaa gtaacacti tccattttt algggatga gtctgttg ggagtcctg gaaataccat sapiens tgtgtttac ggctacatct tctctgaa gaactggaa agcaglaala ttatctcti taactctct gtctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcacalga aactggatat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacc talaagca tctcttct cactttatc agcatagatc galactgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtgtgcta tttaatc ctggccatt tgggtttag taacctlaga gtactaccc atacttccc ttlaaatcc tgrtaact gacaalgca ccactgttaa tgaatttga agtctggag acccaacia caactcatt tacacalgt gttaacact gtggggtc ctatctc tttttgat gtgtttcti tanaacaa tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctggcc ctgaaagc ctctcaact ggtaacalg gcagtggttaa tctctctg gcttttiaca ccciatcag tcatgggaa tgtgaggatc gcttcagcc tggggagtgt gaagcagiat cagtgctact aggtctgcat caactccti tactatga cagggcctt ggctttctg aacagtga tcaacctgt ctctattt cttttggag atcattcag ggacalgtctg atgaatcaac tgaacacaa ctcaaatcc ctatctct ttacagatg ggctcagaa ctctactt catcagaga aaagtgaagg gcttgtgaa cagatgtc tacagalga tctgttagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat tlaacctga tcaaaagca agtgtacc agatgtg aaaaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaagagct ttcaatca gtcacaaaat ggaaagata. taaaagcaaa agtgtctgc attgatcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYIFSLKN P Homo WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA sapiens</p> <p>NLYTSILFLT FISIDRYLH KYPFREHLQ KKEFAILISL AIWVLVTLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMLCTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgcgcgc gcctggccctc gcttggagga aaagagactct tgggaagat A Homo ggagactcatt gtcatttcc cagaatgtg ttccagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact sapiens ctgcatctct gcttgcactt tcatcttact tgaacctatg gctctctggc cagtgtgtgac tgcgttccat accggggacat ccaacaaac</p>
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784	<p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgctggg gatcaggca tggaaagcaa ctggcaaaa A Homo ctggctggca gcagaggctg ccttggaaa gtaacacti tccattttt algggatga gtctgttg ggagtcctg gaaataccat sapiens tgtgtttac ggctacatct tctctgaa gaactggaa agcaglaala ttatctcti taactctct gtctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcacalga aactggatat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacc talaagca tctcttct cactttatc agcatagatc galactgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtgtgcta tttaatc ctggccatt tgggtttag taacctlaga gtactaccc atacttccc ttlaaatcc tgrtaact gacaalgca ccactgttaa tgaatttga agtctggag acccaacia caactcatt tacacalgt gttaacact gtggggtc ctatctc tttttgat gtgtttcti tanaacaa tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctggcc ctgaaagc ctctcaact ggtaacalg gcagtggttaa tctctctg gcttttiaca ccciatcag tcatgggaa tgtgaggatc gcttcagcc tggggagtgt gaagcagiat cagtgctact aggtctgcat caactccti tactatga cagggcctt ggctttctg aacagtga tcaacctgt ctctattt cttttggag atcattcag ggacalgtctg atgaatcaac tgaacacaa ctcaaatcc ctatctct ttacagatg ggctcagaa ctctactt catcagaga aaagtgaagg gcttgtgaa cagatgtc tacagalga tctgttagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat tlaacctga tcaaaagca agtgtacc agatgtg aaaaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaagagct ttcaatca gtcacaaaat ggaaagata. taaaagcaaa agtgtctgc attgatcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYIFSLKN P Homo WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA sapiens</p> <p>NLYTSILFLT FISIDRYLH KYPFREHLQ KKEFAILISL AIWVLVTLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMLCTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgcgcgc gcctggccctc gcttggagga aaagagactct tgggaagat A Homo ggagactcatt gtcatttcc cagaatgtg ttccagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact sapiens ctgcatctct gcttgcactt tcatcttact tgaacctatg gctctctggc cagtgtgtgac tgcgttccat accggggacat ccaacaaac</p>

569	189920	G Protein- Coupled Receptor GPR63 (PSP24 beta)	NP_110411.1	<p>atttgctg tggaaaga oclacatgaa laltacac cclccaccat tccagcatcc tgaocctcag ccatgctta gatatagtt tgaacaacat gctccacatg gttgagtic ctgacccg agatagacag ctgagccac aacaccaga gcatlaaga gctaaact gctcttcag atcaccctt ctgctaat gatatcatt ctgttgtt ctctcttg gacttgtt gttgocica tgcttiaca aaaaactgccc agtgggctg caataacat cctctgccc agccctagct tgcagacat gttgctgca gtcgcaaga tgcccttgcc cctggtaact atcttacta ccgtaggat ttggggaaa ttctctgta gggtaicgc tatgtttt tggtattg tgaagaag agtagccalc ctgctcatca ttgcataga ttggctct attagctt ctttagcc agagcagga taagctaac ccatalagag ctgaagctct gattcagtt tctgggcaa cctcttgg ttgacttt ctttagcc taggaaaccc cgaactgacg ataactccc gagctocca gttgtgtt ggggtacaaa ccaatccagg ctaccaggct tatgtgatt tgaattct catcttct ttcalacct tctggtaact actgtacta ttatgggca tactaacac cctccggcac aatgcttga ggtccatag ctacocctgaa ggatagcc tcaagocagg cagcaaatg ggtctcatga gctgcagag accttccag atgagcatg acatggct taaacacat gcttccaca ctattgat tctctgct gcttcatt tctgctggc ccaatccc actacagcc ttgtggcaac attcagtaag cacttiact atcagcaca ctttttgg attagcaact ggtactgic gctcgtac ctcaagctg catlgaatcc gctgactac tactggagga ttagaat ccatgact tgcctggaca tgaactcaa gctctcaa ttgtccgc agctccctg tcacaaag cgaagatc gctctgac tgcctgctg tgcctgctg tgcctgctg atcagacgt ggttgaata ttggaactg ctgacattt ggtgactg tgccttct ttgcatgaa tctcttct catagctt cacttiat ttittala ggtttgt atgatagt gttgagcag taaagaaga agttaata tgttgtt accaagaata aataataggga agtgaatc aataatcc tccaggtt aatagaat ccaattag gttgagaga cttttt gtttgggt ttctctga ttgattgt ttcatag ggaatcaga ttgtctta ttgagctgc agtactatg aattgactg gttgctg ctgctgctg atgctatt gattatca agacttt ttctgga gacactgct ctttaccat cacatggag cc MVFSAVLTAF HTGTSNTTFV VYENTYMNIT LPPFQHPDL SPLLRYSFET MAPTGLSSLT VNSTAVPTTP AAFKSLNPL QITLSAIME ILFVSFLGNL VVCLMVYQKA AMRSAINLL ASLAFADMLL AVLNMFPALV TLTTRWIFG KFFCRVSAMF FWLFVIEGVA ILLISIDRF LIIVQRQDKL NPYRAKVLIA VSWATSFCA FLAVGNPDL QIPSRAPQCV FGTTNPGYQ AYVILISLIS FFIPFLVILY SFGILNLT HNALRIHSYP EGICLSQASK LGLMSLQRPF QMSIDMGFKT RAFTTILF AVFVVCWAPF TTYSLVATFS KHFYQHNF EISTWLLWLC YLKSALNPLI YYWRUKKFHD ACLDMMPKSF KFLPQLPGHT KRRRPSAVY VCGEHRTVV ttgcttga cactctga agcttaaaa acaatgag aatggctt caagatagac ctatagca catcactg gaatalaca actcgaact tggctctcag cgtatcacc cgttaccag ggaacaatg aatticaat tttagcatg gttccaa caataatgaa tctatttc agatggatt tgaagtgga caatgggac cactggcat tgaatttg cctccaaact tacttgaat tttagtca gaagattctg taitagtiag aagagcaga ttacttct tcaacaaac tgcatttc caggtatg gaccccaag aaaaactta gtgagtiag tgaagctg cagtiatgga aacattacta tccgaatct gaaggaact gttcaatlaa aatacaaca tacaagaact caggaatg atcaccat ctgtgcttc tggatctga acaaaaaca agttttgga ggaaggaca cgtcaggatg ttgtcacac agagattcag atgcagtiag gacagctg ctgtgaac acttcaaca cttggagt ctgatgacc ttccaagaag tgcctcacag ttatgiccaa gaacacaaa agtctcact ttcatcgt atattgggtg tggataat gclatttt cagcagaac tctctgaca tatgtgtt ttgagaatt gcaaggat tatoccca aatcttgaat gaactgagc acagccctg tgtctctgaa tctctctc ctctagag gctggatc ctcttcaat gttgagagc ttgtatgct tgtgagc ctgtgcat tctctct ggaacattt acctgagag ggtatagc aattcagct tcatgctc ttgtanaagt atttaacat tacttgcgc galacattt aaaaactg atcattgctt ggggttggc tgcctatg gttgagtiag tctagcag cagaacaac aatgaagct atggaaga agttaagg aagaagaag gttgagat ctgttgat caagatccag tcalattta tggacctg</p>	P	Homo sapiens
570	189945	G Protein- Coupled Receptor Dj287g14.2	AK027843	<p>ttgcttga cactctga agcttaaaa acaatgag aatggctt caagatagac ctatagca catcactg gaatalaca actcgaact tggctctcag cgtatcacc cgttaccag ggaacaatg aatticaat tttagcatg gttccaa caataatgaa tctatttc agatggatt tgaagtgga caatgggac cactggcat tgaatttg cctccaaact tacttgaat tttagtca gaagattctg taitagtiag aagagcaga ttacttct tcaacaaac tgcatttc caggtatg gaccccaag aaaaactta gtgagtiag tgaagctg cagtiatgga aacattacta tccgaatct gaaggaact gttcaatlaa aatacaaca tacaagaact caggaatg atcaccat ctgtgcttc tggatctga acaaaaaca agttttgga ggaaggaca cgtcaggatg ttgtcacac agagattcag atgcagtiag gacagctg ctgtgaac acttcaaca cttggagt ctgatgacc ttccaagaag tgcctcacag ttatgiccaa gaacacaaa agtctcact ttcatcgt atattgggtg tggataat gclatttt cagcagaac tctctgaca tatgtgtt ttgagaatt gcaaggat tatoccca aatcttgaat gaactgagc acagccctg tgtctctgaa tctctctc ctctagag gctggatc ctcttcaat gttgagagc ttgtatgct tgtgagc ctgtgcat tctctct ggaacattt acctgagag ggtatagc aattcagct tcatgctc ttgtanaagt atttaacat tacttgcgc galacattt aaaaactg atcattgctt ggggttggc tgcctatg gttgagtiag tctagcag cagaacaac aatgaagct atggaaga agttaagg aagaagaag gttgagat ctgttgat caagatccag tcalattta tggacctg</p>	A	Homo sapiens

gctgggtaatt ttggagatcat gttttttctg aacattggca tgttcatgtt ggttaattggg gcaatctgtg ggaaggaaatgg caaggagaagc
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 gccgtctcc agcagatgt gtagataatga ggtatgggtt tttaattac tgcacatcc tgcacacoca tcttgggaga
 caagacatt accagctg gctttcag gggaggggtg tattcagt
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 PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHRTQEVH HPICAFWDLN Homo
 KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR sapiens
 NTKVLTFISY IGCISAFS AATLLTYAF EKLRRDYP SK LMNLSTALL FLNLLFLLDG
 WITSFNVDGL CIAVAVLLHF FLATFTWMG LEAHMYIAL VKVFNTYIRR
 YLKFICIGW GLPALVSVV LASRNNNEVY GKESYGKEG DEFCWQDPV
 IFVYTCAGYF GVMFFLNIA M FIVVMVQICG RNGKRSNRTL REEVLRNLRS
 VVSLTFLLGM TWGFAFWG PLNPFMYLF SIFNSLQGLF IFHFCAMKE
 NVQKQWRRLH CCGRFLADN SDWSKTATNI IKSSDNLGK SLSSSSIGSN
 STYLTSSKSKS SSTTYFKRNS HTDNVSYEHS FNKSGSLRQC FHGQVLVKTG PC
 caccatagg caaagatagt ttcttagag agaatatgc ctgcaata caggttacc aggcacagatg gagaacatc
 agattttga tactttatt atgcagtgac atacacgtc attctgtgc caggttcat agggaaata ttgacctgt gggatttca
 tggttatg aagaacaaca aacgagctgt gatattatg ataaactag ccattgtcga ctatacaaa gtttcttct tgcacatgag
 gatctctac tacttgaatc atgactggcc atttgggctt ggtcttgcga tgttctgtt ctactgaag tatgtcaaca tgtatgcaag
 calctactc ttgtcttga tcaagtgtcg acgaatttg ttctcatgt acctcttgc ctocattgac tgcacacaga aatagact
 gtacatcagc attgtcttgc ggtctgcat ctgcttggc tgtgtactt tccactct cagaacacagt gtagatacct ctgggcaatg
 gaccaatgc ttgttgatc ttctaccag gaatgtcaac ctggccacgt ccgttgttat gatgaactt ggcgagtgta ttgggttgg

571 189945 G Protein- Coupled Receptor
 Dj287g14.2 BAB55406

572 190026 G Protein- Coupled Receptor
 JEG18 NM_032553

Homo sapiens

Homo sapiens

P

NP_115942.1

G Protein-Coupled Receptor JEG18

190026

573

aacccgcctt cgtattgac ctggagagacg gtttalcac tgcagataa alataccatg gcccaagatc ttggagagaa
acagaaagcc ttgagatga ttcaacctg tgcagggta ttctaattt gctttgacc ttatcattt agttttctt tagatttct
gggtgaagtc aatgaataa aagcgcgctt agccagaagg gtgattciaa tatttalc ttgttgatg ttgttctga gtcgaatc
atgtctgac ccagcatat actactttt cactaalgag ttccgaagac ggctttcaag acaagatttg calgacagca tccaatcca
tgcataatcc ttgtgagta accalacagc ttccaccatg acacctgaat tatgctaaac caaaaaacca aactgaatgt
gacctgaat gcaatlatat cagaaatcat ctagaalac caagccacag ggaagaact gcaaaacaac acagctttc
agttcttc tatctactg ctatggggaa ttactctt caaagcagga cctatttga gctattagat ccacgallat tgaattgac
atgtccatgt agtaatttt cttaagt

MPANYTCTRP DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFGYMKKE
TKRAVIFMIN LAIADLLQVL SLPLRIFYL NHDWFPFPGCL CMFCFYLKYV
NMYASIFYLV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLIICLACV
LFPLRTSDD TSGNRITKCFV DLPTNRVNLA QSVMMMTIGE LIGFVTPLLI
VLYCTWKTIV SLQDKYPMAQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF
PLDFLVKSNE IKSCLARRVI LIFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD
SIQLHAKSEV SNHTASTMTP ELC

Homo sapiens

A

AF055084

G Protein-Coupled Receptor VLGR1

190031

574

attactgat agtaatgat tccagcgtga ttccaaagg ttactttat gacagcatct ttctgattc ctacagttt attatctc
cattgccaag gttatgaac ttatattag ttgtgttc gtacaggcac cactcatgg gagcaacaca gaaatctgt tcaaaacatc
atttcaggaa aagaagaata tttagoggtt gaggatctt aagaatttg cagtactta tagaactaag ttgtaggagc taagaggatc
tttaattca tgcattgcaa ttatgtatt ttgtgttg ttattttt ttatttg atttgatga ctgggaaga gggtatgatt ttacattca
agaataatgga cttagatag atcaactcc tgaatagga aacatcca ttgtctgcat cataatag aaaaatgata
acgcagaagg catcatgaa ttgaccaca agtatatctg ctgcagatg gaggaagag ttggctgat catgatcca
gtgtgaggc tacatgaaac ttatgctat gtgacagctg attatctc tgcagctg tctggcagtc ccggagggtt tgaattcat
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ccctgatic gtagccag tcaacta ttggcagaa cctattaga tccatcaaa taacataac ccggcttctt ggaacattg
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agaaggcat atgtgggtct ctgggtggc tggaccagc gatatgctc tgggttagaa altocigaa ttctgtat tggcaacatg
accocaacac tggggagct ttactttcc caggtggaac aaggaaagg agttttctg tggacgttcc ctggccctg

[illegible]

575	190031	G Protein- Coupled Receptor VLGR1	AAD55386.1	<p>ggaggactac acatggccta cagacacttc tggatgltgg ttctcttgt cattlilcaac agtctgcagg gactttatgt tticatggtt tatttcatt tacacaacca aatggtgtgc cctatgaagg ccagttaacg tggagaatg aatgggcatc ctggaccocag cacagccitt ttacgcccg ggagtggaaat gccctctgt ggaggggaaa tgcacaaatg caccagaat ctatcoggig ctatggagga ggtgccacct gactgggaga gagatcctt ccaacaggc agtcaggcca gccctgatt aaagccaagt ccacaaaatg gagccaggt cccgtctct ggagatag gacaggggic actatagoc gatgaggagt ccagaggatt tgaatgta aatgtcat taanaactg tgcgtctc agtgcagtg aatgaatc tggcaaggc agccaggagg ggggacclt gactgaccc cagatcgg agtcaggag galaccatc gccacacit accitgtaga cctacatac cattgcacig agcacacti calattigia tcaacttgg tgcataaact cctaaagat atccaccti gtaataggaa cctgigaatt gtaaggatg attaalacaa acgtgattgt tgaatgga gataaaita ctgattgat gtaocctgaa aatcactgc tataagaaag gtagagtcag ttgtatcag ttaataggat gttcatatc caagatatt agtgtttt ttaatcacc tataaggcta acattgtta atgaagtaa taataalaa agcaatagaa tct</p> <p> MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNIISIVRII IMKNDNAEGI P Homo IEFDPKYTAF EVEDVGLIM IPVVRLLHGT GYVTADFISQ SSSASPGGVD sapiens YILHGSTVTF QHQQNLSFIN ISIDDNES FEETIEILLT GATGGA VLGR HL VSRILAK SDSPFGVIRF LNQSKISIAN PNSTMILSLV LERTGGLGE IQVNWETVGP NSQEALLPQN RDIADPVSLG FYFGEGEVGV RTILITYPH EEIEVEETFI IKLHLVKGEA KLDSRAKDVLT LTQEFQDPN GVVQFAPETL SKKTYSEPLA LEGPLLIITF VRRVKGTGGE IMVYWELSE FDITDFLST SGFTTIADGE SEASFDVHLL PDEVPEIEED YVIQLVSVEG GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSLIGQNL IRSIQNITR LAGTFGDVAV GLRISSDHKE QPIVTENAER QL VVKDGA TY KVDVVPKKNQ VFLSLGSNFT LQLVTVM LV GRFYGMPTIL QEAKSA VLPV SEKAANSQVG FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG NMFTLGLSL FSHGEQRKGV FLWTFSPGW PEAFVLHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQFST SSRNIIVSED TQMIRLHVQR LFGFHSDLIK VSYQTTAGSA KPLEDFEPVQ NGELFFQKFQ TEVDFEITII NDQLSEIEEF FYINLTSVEI RGLQKFDVNW SPRLNDFS AVTILDNDL LAGMDISFPE ITTAVA VDTT LPVETEST YLSTSKTTTI LQPTNVVAIV TEATGVSAP EKL VTLHGT AVSEKPDVAT VTANVSHGT FSLGPSIVYI EEMKNGTFN TAEVLIRRTG GFTGNVSITY KTFGERCAQM EPNALPFRGI YGHSNLTWAV EEEDFEEQTL TLIFLDGERE RKVSVQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAFAMVIT GSDLHNGIIG FSEESQSGLE LREGAVMRRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL QKDGVNLMEE LQSVSGTTTC TMGQTKCFIS IELKPEKVPQ VEYVFFVELY EATAGAAINN SARFAQIKL EDESQSLV YFSVGSRLA VA HKKATLISLQ VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE PQRSTVLDV ILTPETGSLN SFPKRFQIVL FDPKGGARID KVYGTANITL VSDADSAIW GLADQLHPV NDDILNRLH TISMKVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTENF AFSLLTNVTC GSPGEKSTI LDSCPVLISL ALHWYPOQIN GHKFEKEGD YIRPERLLD VQDAEIMAGK STCKLVQFTE YSSQWFWFISG NNPLTLKNKV LSLSVKQSS QLLTNDNEVL YRIYAAEPRI IPQTSLLCLLW NQAAASWLSD SQFCKVIEET </p>
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576	190168	G Protein- Coupled Receptor GPR58	NM_014626	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMA YR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SGGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaattc tgcacatgata atttccattt cclacttcaa gcagcttccac acacaaacca actctccat cctctccalg gccalcacig atttccctc tgggaticacc atcattgccat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catccatttt tcatcttgc tcagtgcca ttgatagatt ttatgcata tgitaccat tacittatic caccaataa actattccag tcaataaaag attgctact ctatgtggt cggctccctgg agcatttggc ttctctcaga ggcctatgca gatggaatag agggctatga catcttggt gctgttoca gtctggcc agtgatgic acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgcctatg catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gagttttt attatgttg ttctctggt ttcttcaat ttatggat cccitttga actctctac tctgtagt ttgttalg cctgacatg gtttgctat tttaactca catgtaatcc gttaataat ggtttctct atccctggt tgcagagca ctgaaagata ttitgcagg taaaatltic agctcatgt tcaataaac tatttgt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFI LLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSF DLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagaccta tccagtgc caaaattgt aaataagalc ctgtccccc accaacgct ctittcalt ccaaggigala atgtatcgg ttatgactgg agccatgatt atccattat cggaaactig gtataatgg ttccatc gctttcaaa cagcttact ctccacaaa ctctctgac ctctccalg caaccacga ctctctgct gggtttgca ttatgccala cagcataatg cgatcagg agagtgcg gactttggg gatggcttt gtaattoca cacaagctt gacatgag tcagactgac ctccatttc caccttgt ccatlgctat tgaccgatt taigccgigt gtiacctt acattacaca accaaaalga cgaactccac catlaagcaa ctctggcat ttgtctggc agtctgct ctitttct ttgttatt tctatcag gccatgtt coggatgca gagctataag atactgtg ctgtctcaa ttctgtcc ctacttca acaattcgg ggggacaala ttgttacta catgtttt tacctctggc tccatcagg ttgtattta tggcaaatc ttatogtt ccaacagca tctctgagc atcagcag ttccgaaaa cacaaggggg gcagtgaaaa aacacatc caagaaaaag gacaggaag cagcgaagac acttggtala gtaattgggg ttgtctggc ttgtgggt cctgttct ttgtctgct gattgacca taactagct actctactcc cataaata ttggatctt tagtggct ccgttact aactctat gcaacctct taactaggc ttittaatc calgtttca gaaagcattc aagttacatg ttgcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
577	190168	G Protein- Coupled Receptor GPR58	NP_055441.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMA YR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SGGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaattc tgcacatgata atttccattt cclacttcaa gcagcttccac acacaaacca actctccat cctctccalg gccalcacig atttccctc tgggaticacc atcattgccat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catccatttt tcatcttgc tcagtgcca ttgatagatt ttatgcata tgitaccat tacittatic caccaataa actattccag tcaataaaag attgctact ctatgtggt cggctccctgg agcatttggc ttctctcaga ggcctatgca gatggaatag agggctatga catcttggt gctgttoca gtctggcc agtgatgic acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgcctatg catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gagttttt attatgttg ttctctggt ttcttcaat ttatggat cccitttga actctctac tctgtagt ttgttalg cctgacatg gtttgctat tttaactca catgtaatcc gttaataat ggtttctct atccctggt tgcagagca ctgaaagata ttitgcagg taaaatltic agctcatgt tcaataaac tatttgt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFI LLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSF DLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagaccta tccagtgc caaaattgt aaataagalc ctgtccccc accaacgct ctittcalt ccaaggigala atgtatcgg ttatgactgg agccatgatt atccattat cggaaactig gtataatgg ttccatc gctttcaaa cagcttact ctccacaaa ctctctgac ctctccalg caaccacga ctctctgct gggtttgca ttatgccala cagcataatg cgatcagg agagtgcg gactttggg gatggcttt gtaattoca cacaagctt gacatgag tcagactgac ctccatttc caccttgt ccatlgctat tgaccgatt taigccgigt gtiacctt acattacaca accaaaalga cgaactccac catlaagcaa ctctggcat ttgtctggc agtctgct ctitttct ttgttatt tctatcag gccatgtt coggatgca gagctataag atactgtg ctgtctcaa ttctgtcc ctacttca acaattcgg ggggacaala ttgttacta catgtttt tacctctggc tccatcagg ttgtattta tggcaaatc ttatogtt ccaacagca tctctgagc atcagcag ttccgaaaa cacaaggggg gcagtgaaaa aacacatc caagaaaaag gacaggaag cagcgaagac acttggtala gtaattgggg ttgtctggc ttgtgggt cctgttct ttgtctgct gattgacca taactagct actctactcc cataaata ttggatctt tagtggct ccgttact aactctat gcaacctct taactaggc ttittaatc calgtttca gaaagcattc aagttacatg ttgcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
578	190170	G Protein- Coupled Receptor GPR57	NM_014627	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMA YR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SGGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaattc tgcacatgata atttccattt cclacttcaa gcagcttccac acacaaacca actctccat cctctccalg gccalcacig atttccctc tgggaticacc atcattgccat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catccatttt tcatcttgc tcagtgcca ttgatagatt ttatgcata tgitaccat tacittatic caccaataa actattccag tcaataaaag attgctact ctatgtggt cggctccctgg agcatttggc ttctctcaga ggcctatgca gatggaatag agggctatga catcttggt gctgttoca gtctggcc agtgatgic acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgcctatg catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gagttttt attatgttg ttctctggt ttcttcaat ttatggat cccitttga actctctac tctgtagt ttgttalg cctgacatg gtttgctat tttaactca catgtaatcc gttaataat ggtttctct atccctggt tgcagagca ctgaaagata ttitgcagg taaaatltic agctcatgt tcaataaac tatttgt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFI LLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSF DLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagaccta tccagtgc caaaattgt aaataagalc ctgtccccc accaacgct ctittcalt ccaaggigala atgtatcgg ttatgactgg agccatgatt atccattat cggaaactig gtataatgg ttccatc gctttcaaa cagcttact ctccacaaa ctctctgac ctctccalg caaccacga ctctctgct gggtttgca ttatgccala cagcataatg cgatcagg agagtgcg gactttggg gatggcttt gtaattoca cacaagctt gacatgag tcagactgac ctccatttc caccttgt ccatlgctat tgaccgatt taigccgigt gtiacctt acattacaca accaaaalga cgaactccac catlaagcaa ctctggcat ttgtctggc agtctgct ctitttct ttgttatt tctatcag gccatgtt coggatgca gagctataag atactgtg ctgtctcaa ttctgtcc ctacttca acaattcgg ggggacaala ttgttacta catgtttt tacctctggc tccatcagg ttgtattta tggcaaatc ttatogtt ccaacagca tctctgagc atcagcag ttccgaaaa cacaaggggg gcagtgaaaa aacacatc caagaaaaag gacaggaag cagcgaagac acttggtala gtaattgggg ttgtctggc ttgtgggt cctgttct ttgtctgct gattgacca taactagct actctactcc cataaata ttggatctt tagtggct ccgttact aactctat gcaacctct taactaggc ttittaatc calgtttca gaaagcattc aagttacatg ttgcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
579	190170	G Protein- Coupled Receptor	NP_055442.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMA YR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SGGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaattc tgcacatgata atttccattt cclacttcaa gcagcttccac acacaaacca actctccat cctctccalg gccalcacig atttccctc tgggaticacc atcattgccat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catccatttt tcatcttgc tcagtgcca ttgatagatt ttatgcata tgitaccat tacittatic caccaataa actattccag tcaataaaag attgctact ctatgtggt cggctccctgg agcatttggc ttctctcaga ggcctatgca gatggaatag agggctatga catcttggt gctgttoca gtctggcc agtgatgic acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgcctatg catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gagttttt attatgttg ttctctggt ttcttcaat ttatggat cccitttga actctctac tctgtagt ttgttalg cctgacatg gtttgctat tttaactca catgtaatcc gttaataat ggtttctct atccctggt tgcagagca ctgaaagata ttitgcagg taaaatltic agctcatgt tcaataaac tatttgt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFI LLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSF DLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagaccta tccagtgc caaaattgt aaataagalc ctgtccccc accaacgct ctittcalt ccaaggigala atgtatcgg ttatgactgg agccatgatt atccattat cggaaactig gtataatgg ttccatc gctttcaaa cagcttact ctccacaaa ctctctgac ctctccalg caaccacga ctctctgct gggtttgca ttatgccala cagcataatg cgatcagg agagtgcg gactttggg gatggcttt gtaattoca cacaagctt gacatgag tcagactgac ctccatttc caccttgt ccatlgctat tgaccgatt taigccgigt gtiacctt acattacaca accaaaalga cgaactccac catlaagcaa ctctggcat ttgtctggc agtctgct ctitttct ttgttatt tctatcag gccatgtt coggatgca gagctataag atactgtg ctgtctcaa ttctgtcc ctacttca acaattcgg ggggacaala ttgttacta catgtttt tacctctggc tccatcagg ttgtattta tggcaaatc ttatogtt ccaacagca tctctgagc atcagcag ttccgaaaa cacaaggggg gcagtgaaaa aacacatc caagaaaaag gacaggaag cagcgaagac acttggtala gtaattgggg ttgtctggc ttgtgggt cctgttct ttgtctgct gattgacca taactagct actctactcc cataaata ttggatctt tagtggct ccgttact aactctat gcaacctct taactaggc ttittaatc calgtttca gaaagcattc aagttacatg ttgcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens

581	190188	G Protein- Coupled Receptor LGR6	AAG17168.1	<p>ttccttttc tctctccc tgggtgaatg atggcigtctt claaacaaa tacaacaaa actcagcagc gtgatctata gcagatggc ccaglacctg gctocactga tcaactctct ccctgagaca tacaacacgg gctcctcttg gccctggctt cccctggcct toctcagctt caccttgata ctgggcctct tcttgatcat gctgaagct gtagacaga gacctggact ttgtctgt taagggaat gagggagga aagacagga aggggtggag ggtgata</p> <p>MRLEGEGRSA RAGQNLNRAG SARRGAPRDL SMNNLTELQP GLFHHLRFLF ELRLSGNHLSP HPGQAFSGL YSLKILMLQN NQLGGIPAEA LWELPSLQSL DLNYNKLOEF PVAIRTLGRL QELGFHNNNI KAPEKAFMG NPLLQTHIFY DNPIQFVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTTS LEILTLTRAG IRLLPSGMCQ QLPLRVLEL SHNQIEELPS LHRCKLEEL GLQHNRIWEI GADTFSQLSS LQALDLSWNA IRSHPEAFS TLHSLVKLDL TDNQLTTLPL AGLGGLMHLK LKNLALSQA FSKDSFPKLR ILEVPIYQC CPYGMCSFF KASQWEAED LHLDDEESSK RPLGLLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP GPFKPCYLF ESWGRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPVKVF VVGAIAGANT LTGISCGLLA SVDALTFQGF SEYGARWETG LGCRATGFLA VLGSEASVLL LTLAAVQCSV SVSCVRAYGK SPSLSVRAG VLGCLALAGL AAALPLASVG EYGASPLCLP YAPPEGQPAAL LGFTVALVMM NSFCFLVAVG AYIKLYCDLP RGDFAVWDC AMVRHVAVLI FADGLLYCPV AFLSFASMLG LFPVTPAEVK SVLLVVLPL ACLNPLLYLL FNPFRDDLRL RLRPRAGDSG PLAYAAAGEL EKSSCDSTQA L VAFSDVDLI LEASEAGRP GLETYGFPSV TLISCQOPGA PRLEGSHCPE PEGNHFGNPQ PSMDGELLRL AEGSTPAGGG LSGGGGQPS GLALLHTY</p> <p>atgcagcca cctgcacaa cagcacggc gagagtaaca gcagcacac gtagcagccc cctcacaat tgcacatcag ccctggccac ggcacatcc gctcaacgt gctggtatc ttctggccg cctcttctt cggcaacala gtagctggcgc tagctgtgca gcgcaagccg cagctgtctgc aggtgaccaa cctgtttatc tttaacctc tgcacacga cctgtctgag atttgcctg tggcccccctg ggtgtgtgtgccc acctgtgtc cttctctg gccctcaac agccactctt gcaaggccct ggtagccct accacctgt tggccttgc cagcgtcaac accattgtg tgggtcagt gtagcgtac ttgtocata tcaacctct ctcclacccg tcaagatga ccaagcccg cgggttaacctg cttctatg gcacctggat tgtggccalc ctgcagagca ctcctccact ctacggctg ggcagggctg cctttgatga gcgcaatgct cttgtctcca tgcattgggg ggcagccccc agctacacia ttctagcgt ggtgttcttc atgtcalt cactgtatg catgatggc tgcattccg tgggtgtctg tgcagccccc agggcagcag ctctctgta caatgtcaag agcacagct tggtaggtggc agtcaaggac tgggtgtgaga atgaggtgaga agggcaggaat gggagggcaag gacggcagcc tgaaggccaa agggagggcag acgggtggcca gtagggggcag atgaggtgaga agggggcagc agggaggtcag agggagggcag acgggtggcca gtagggggcag atgaggtgaga atgaggtgaga tgaaggaggaac agcagaggaag cagacagggg tgcacagag gtaacacat gtagcagatga ctgggtgaga gtagcagag agttgtgtga agacagacat aatttcag agggagagct cgaaggcag ataaccccg agagccctcc acccagctgt cgttaacagca acagcaaccc tctctggccc aggtgtclacc agtggcagc gtagagggc atcttca tcatcttc ctatgtgcla tccctggggc cctactgt tttagcagc ctggccgtgt ggggtgtgtat cggaaacacac gtaacacat ggggtgtatc cataatcagc tggctttct tctgcagc ctgcacac cctatgtct atgtgtatc atgcacagacc ataacaggg aatccagga cagctgag aggtttctt gcaaggagaaa gccccggaaa gaaagtagggc acccagacct gcccgggaaca gaggggtgga ctgaaggcaaa gattgtccct tctacgatt ctgtacttt tcttga</p>	P	Homo sapiens
582	190414	G Protein-coupled Receptor GPR101	AF411115	<p>atgcagcca cctgcacaa cagcacggc gagagtaaca gcagcacac gtagcagccc cctcacaat tgcacatcag ccctggccac ggcacatcc gctcaacgt gctggtatc ttctggccg cctcttctt cggcaacala gtagctggcgc tagctgtgca gcgcaagccg cagctgtctgc aggtgaccaa cctgtttatc tttaacctc tgcacacga cctgtctgag atttgcctg tggcccccctg ggtgtgtgtgccc acctgtgtc cttctctg gccctcaac agccactctt gcaaggccct ggtagccct accacctgt tggccttgc cagcgtcaac accattgtg tgggtcagt gtagcgtac ttgtocata tcaacctct ctcclacccg tcaagatga ccaagcccg cgggttaacctg cttctatg gcacctggat tgtggccalc ctgcagagca ctcctccact ctacggctg ggcagggctg cctttgatga gcgcaatgct cttgtctcca tgcattgggg ggcagccccc agctacacia ttctagcgt ggtgttcttc atgtcalt cactgtatg catgatggc tgcattccg tgggtgtctg tgcagccccc agggcagcag ctctctgta caatgtcaag agcacagct tggtaggtggc agtcaaggac tgggtgtgaga atgaggtgaga agggcaggaat gggagggcaag gacggcagcc tgaaggccaa agggagggcag acgggtggcca gtagggggcag atgaggtgaga agggggcagc agggaggtcag agggagggcag acgggtggcca gtagggggcag atgaggtgaga atgaggtgaga tgaaggaggaac agcagaggaag cagacagggg tgcacagag gtaacacat gtagcagatga ctgggtgaga gtagcagag agttgtgtga agacagacat aatttcag agggagagct cgaaggcag ataaccccg agagccctcc acccagctgt cgttaacagca acagcaaccc tctctggccc aggtgtclacc agtggcagc gtagagggc atcttca tcatcttc ctatgtgcla tccctggggc cctactgt tttagcagc ctggccgtgt ggggtgtgtat cggaaacacac gtaacacat ggggtgtatc cataatcagc tggctttct tctgcagc ctgcacac cctatgtct atgtgtatc atgcacagacc ataacaggg aatccagga cagctgag aggtttctt gcaaggagaaa gccccggaaa gaaagtagggc acccagacct gcccgggaaca gaggggtgga ctgaaggcaaa gattgtccct tctacgatt ctgtacttt tcttga</p>	A	Homo sapiens

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1		<p>MTSTCTNSTR ESNSSHTCMP LSKMPSLAH GIIRSTVLVI FLAASFVGNV VLALVLQRKP P</p> <p>QLLQVTRRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL</p> <p>THLFAFASVN TIVLVSVDYR LSIHPLSY SKMTQRRGYL LLYGTWIVAI</p> <p>LQSTPPLYGW QQAADFERNALCSMIWGASP SYTILSVVSF IVPLIVMIA</p> <p>CYSVVFCAAR RQHALLYNVK RSHLEVRVKD CVENEDEEGA EKKEEFQDES</p> <p>EFRRQHEGEV KAKEGRMEAK DGSLLKAKES TGSESSVEA RGSSEVRESS</p> <p>TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMFEFGEDDI</p> <p>NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IFILFSYVL SLGPYCFILAV</p> <p>LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVGYMHKT IKKEIQDMLK</p> <p>KFFCKEKKPK EDSDPDLPGT EGTGEGKIVP SYDSATFP</p>	Homo sapiens
584	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NM_020370		<p>taactgtca ccagaaagga ctgctcttg ggtgagltga actcttcca tatagaag aatgaaggc tgagaaact agccctatc A</p> <p>atgiggaa caactctcc caactctcc lgtacacag agctgtgtct gggtatcgt taigtgtcag taagtgtggg</p> <p>ggtgtgtgtg gctgtgacag gcaacgtggg caatgtgtct accctactgg ccttggtacc ccagcccaag ctocgtacc</p> <p>gattcaacct gctctagcc aactacac lgtgtgtgt cctctactgc agctctctc agccctctc lgtggacac taactcacc</p> <p>lgtactggcg caocgtgtcc acccttgcga ggtgtgtgtg gctctcct ttgtctcca attgtctc calctgacc cctgtccta</p> <p>tgccaciggg accctactc ctactgccc accctaaagt ttctccaa gtttcagtg ccaaggggat agtctgtgca</p> <p>ctgtgtgagca cctgtgtgtg gggcgtggcc agcttgtct cctctggcc tatlataic ctgttactctg tagtctgac ctgcagctt</p> <p>gaccgtacc gaggccggcc ttaccacc atctcactgg gcatctact lgtgtgtgg ctgcagctg ttgcatct ctatgtctc</p> <p>atccaccgcc aggtcaaacg agcagcacag gcatgtgacc aataaagt ggcacaggca agcatccact ccaaccatgt</p> <p>ggccaggact gatgaggcca lgtgtgtgtg ttccagagag ctggacagca ggtgtgacatc agggaggacc agtggaggga</p> <p>tttacttga gccagtcat gctgccaca ccagaccct ggagggggag lcatcagaag tgggagacca gattcaacagc</p> <p>aagagagcta agcagatggc agagaaagc cctccagag catctgcca agccacca attaaaggag ccagaaagagc</p> <p>tccgattct lcatggaa ttgggaaggt gactgaaatg lgtttgtgt lgtctctg ctgtccctc agctacatc cctctgtct</p> <p>gctcaacatt cttgagcca ggtgccaggc tcccggtgtg gtcacatgc tigtgtgcca cctcactgtg ctcaatgtt</p> <p>gcatcaacc tgtgtctat gcatgcatga accgcaatt ccgcaagca latggctcca tttaaaag agggcccccgg</p> <p>agtttccata ggtccattia gaactgtgac octagtacc agaatcagg actgtctct ccaggacca agtggccagg</p> <p>laalaggaga ataggtagaa taacacatgt gggcatitc acaacaat ctccccagcc tcccaatca agtcttcca tcaatgac</p> <p>aatgttcag ccttagactg cccaaggagt attaatat attaatat gaattctgt ctttaaaaa aaaaaaata aaaaaa</p> <p>aaaaaaaaa aaaaaaa aaaaa</p>	Homo sapiens
585	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NP_065103.1		<p>MWNSSDANFS CYHESVLGYR YVAVSWGVVV AVTGTGVNVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPFSDVT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLFQ VFSAGGIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRIRGRPYTT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLRQA SIHNSHVART DEAMPGRFQE LDRSLASGSP SEGISEPVS</p> <p>AATTQLEGD SSEVGDQINS KRAQMAEKS PPEASAKAQ IKGARRAPDS</p> <p>SSEFGKVTRM CFAVFLCFAL SYTFLLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPLY AAMNRQFQA YGSILKRGPR SFHRLH</p>	Homo sapiens
586	190419	G Protein- Coupled Receptor Ls190419	AJ303165		<p>ctttgtcca gagctaac accagttttct cttccacag caaatatct gacagtgtc attctctcc agctgtgtggc aagaagacag A</p> <p>aagtctctct acaactatct ctggcactc gctgtgtccg acatctgtgt cctctttt atagtgttg tggactctt gttggaagat</p> <p>ttactctga acatgcagat gctcaggct ccggaacaga tcatagaagt gctgtgaatc tcatcatcc acaactccat atgattact</p>	Homo sapiens

587	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	LCFRAKPVFL LSTANILTVI ILSQLVARRQ KSSYNYLLAL AAADILVLFF IVFVDFLLED FILNMQMPQV PDKIEVLEF SSIHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTKVI VSVYTTCLT SIPYYWPNPNI WTEDIYSTV HHVLIWHCF TVYLVPCSF FILNSIIVYK LRRKSNFRLR GYSTGKTTAI LFTITSIFAT LWAPRUIMIL YHL YGAPIQN RWLVHIMSDI ANMLALLNTA INFFLYCFIS KRFR	Homo sapiens
588	190427	Cysteine Leukotriene CYSLT2 Receptor	NM_020377	aaagtgtctaa agtttgaagc gtacagctca accaaacaaa tlaalgggcta ttacattc aaaaatcagg aaatttaaat ttattatga atgtatgca gcatgtagta agacttaac cagtgttta aaactcaact tcaaaagaaa agatagttat gctccgtgt tcatnaaac ctagagagat gtaatcagta agcaagaaag aaaaagaggaa attcaaaa taacttttg tctctgttc tttaaccc agcatggaga gaaaattat gtcttgcaa ccatcatct ccgtatcaga aatggacaat aatggcaact tcaacataa caacagcagg aaatgcacaa ttgaaaact caagagagaa ttittocaa ttgtatct ttataat ttctggggag tctgggaaa tgggtgttcc ataatgtt tcttgcaagc ttatagaag tccatcttg tgaacttt catgtataat ctggccatt cagatctct gtatlaagc acgttccct tcaaggctga ctatattt agagagctca atggatatt tggagacctg gcttgcaagg ttatgtct tctgttat gtcaaatgt acagcagat ttattctg accgtgtgta gttgtgtgta ttcttgca atgggtcacc ccttggct tctgtcagtc accagcaca ggggtgtgct gttctgtt gggatcatat gggatctat catggcttcc tcaataatg tctgggacag tggctctgag caaaacagca gttgtatc atgtatgag ctgaatct ataaatg tgaatgag accatgaact atattgctt gggtgtgtggc tgcctgtgc cattttcac actcagcact gttatctg tgaatctg gttctgtt aaggtgtgag tccagaatc gggtgtgtggc gttctcaca ggaagagcact gaccacac atcatcact tgaatctt cttctgtt ttctgtctt atcacact gaggaagc cactgacga catggaaagt ggggttatgc aagagacagac tgcataaagc ttgggttatc acatgtgct tggcagcagc caatgtctg ttcaatc tctctatta cttgtgtgg gaaatatta agagacagact aaggtctgca ctcagaaag gccatocaa gaaagcagaa acaaggtgt ttctgt tgggtgtg tgaagaaag aacacagagt ataagaggt ctatagtag accgtgtt gttatctgt gttatctt atcatctat gttctcaca tgaatgtta ttatcact tccacaaa tttgtatct ttatattag ttgaccata ctgtttta ttgacact ttcaaat ttatcagtg tatttcat tgttgtct taatgagga tacaagagga aaaaatocia ctatgtct gttgtgtgata atatcagact ggggaaaaat gcaaaacaca ttgtatc ctitttca gatttgaac cagatctg gccatcagc ttcttaaat tctcaaaag agccacaact tcccagctt ctcagctcc cctgtctt tcaatctt gaggatagc aactacagac gttatctgtgaa gccacagc agaaaagaa cacatctaa gttatcagga aagactaat gttgaaaagga aggtctgtctt ataaacaaagc agcatcaagt cccaagtaag gacagtgaga gaaaaggggg gaaagagat gaaagagga gaaactgtgaa taagtatgggg aaggtgaagt ttcatgtg atggagagag aggtttcaca acatgaaag caacctat tctatgtt cttctgtc aggtgtatg gaaagagag aaaagttagga ggaagagctg gggcattgct ctatgaaatgt gttatagat gaaaggggtat catcaagac atgtatctca attttctt gaaatgagga ttgtgtgacc ttgtgtgacc ttctctt ataatat tgggtatgaa gccaaaaa aaaagaggtg cttctgagga ttgggtgtg cactcaaggg aagatgtgag ttgggtgtgaa atagcacaag ttgtgtcact cctgaaatc taltacat tccgcaagag atgagtaggg agatgtgtg ttcctgtg agatgtgt gaaaacact agtatgtgt agaggttct ttctgtcat tgaacaaag ctatggatc taccactac tatccatg accatgtac gtaacaaat tgaatgcat	Homo sapiens

589	190427	Cysteinyll Leukotriene CYSLT2 Receptor	NP_065110.1	<p>ctccctgcag ggagattat gccagggcact ttacatttgt tgaatccatt accaaagctc tgaattccat ttacagctg aagaaatga agcttagaga aattaaaga cttgttaaag ttacacagc tagtaaagat tttaaatac tctgtgcaga agtgttgcct gggtgctc ccacacacta ccttgtaaa ctocaggaa gattgttga aagctgaat aaaagctgc ctctaccc aattctcc ccctccac tctcaaga aaacaaaag ttctctca gatttgtga ctataglac aglaaaaggt ggaggtgala tggcattcig aaagtagga ggagactaagt cagctgcac actaac</p> <p>MERKFMSLQP SISVSEMEPN GTFSENNNSRN CTIENFKREF FPIVYLIF WGVLGNGLSI P YVFLQPYKKS TSVNVFEMNL AISDLLFIST LPRADYYLR GSNWFGLDA CRMSYSLYV NMYSSIFYLT VLSVVRFLAM VHPFRLHVT SIRSASFILCG IIVILMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVG LPPFTLSIC YLLIRVLLK VEVPESGLRV SHRKALTTHI ITLIFFLCF LPYHTLRTHV LTTWKVGLCK DRLHKALVIT LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVSVMV RKETRV A ccctgtgccc acgtgcttga caaatctaa ctctcaagg actccaaaa ccagagacac caggagccctg aatggggaac gattctga gctacgagta tggggattac agcgacctct cggaccgccc tgtggactgc ctggatggcg cctgctggc caltgacccg ctgcgcgtgg ccccgctccc actgtagccc gcatctcc tgggtggggt gcccggcaat gocatgg'gg ccctgggtggc tgggaaaggtg gcccgcocga gggtgggtgc caactgggtg ctacactgg ccgtggcggga ttgctgtgc tgttgtct tgcacatct ggcatggccc atggccgtg gaggccactg gcatgtggc gcatgtggcgt gtcggggcgt gocctccatc atctgtcga ccatgtatgc cagcgtctcgt ctctggcag ctctcgtgc cgaactctgc ttctggctc tcgggctgc ctgtgtgct acgtgtcagc gggtgtgcgg gggtggggc cagctgggac actgggcttg ctgtcaccc tgcctccgc calctacgc cggctgaccc agggagacatt cccagcccg ctgcagtgtg tgggtgacta cggcggtccc tccagaccg agaatcggt gactgccatc cggttttt ttgcttct gggtggccctg g'ggccgtgg ccagctgcca cagtgcctc ctgtgtcggc cagcccgacg ctgcocggcg ctgggcacag ccatgtgtt gggtgtttt gtctgtgg caoctacaa cctgtgggg ctgtgtcga ctgtggcgc ccaagaactc gcatctcgg ccaaggccct gggggctgaa cccctcagc tgggocctgc cctgcctcac agctgcctca atccatgct ctccgtat ttggagggg ctcaactcg ccgtgtcagc cagctgctt gtcactgggc ctggagggag tccagggccc agggacgaag tgggtgacg aagaaatoca ccagccatga cctgtgtcgt gtagtggagg tgaagctcgg agagacattg tgggtgtgta tctctatc tcatctaca agactggctt caggcatagc tggatccagg agctcaatga tgtctcatt ttatctct cttatcaa cagatatoca tcatgactt gctatgca aggcctttt aggcactaga gatatagcag tgaacaaaac agacacaaat cctggcc MGNDSVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P PGNAMVAWVA GKVARRRVGA TWLLHLA VAD LCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV algtggccc ctgtgtctt gggtccagc ctgtggctc tctgcaacc tggggagggg gcccattgt gctgtcaca gcaacttag algaaggggg actagctgtt gggtggggcgt ttccctcgg g'cgagggcga ggaggtcggc ctccgagcc ggacacggcc cagcagccct g'gtgtcaca ggtacagagg tgggtcggcc tgggtcgggg tcaagggtgac caggtcgtgg gtgtctcga gctggggccc aggtggccat ctgcgtctt g'gtgtggccc aggttctct caaacggcct gctctgggca ctggccatga aaatggccgt ggagggagat aacaacaaat cgggtcgtt gcccggggcgt cggctggggct agacatct tgalacgic tggagagcct tgggtggocat gaagcccagc ctatgtcc tggccaaggc aggcagccgc gacatggccg</p>	Homo sapiens
590	190437	G Protein- Coupled Receptor C5L2	NM_018485	<p>ccctgtgccc acgtgcttga caaatctaa ctctcaagg actccaaaa ccagagacac caggagccctg aatggggaac gattctga gctacgagta tggggattac agcgacctct cggaccgccc tgtggactgc ctggatggcg cctgctggc caltgacccg ctgcgcgtgg ccccgctccc actgtagccc gcatctcc tgggtggggt gcccggcaat gocatgg'gg ccctgggtggc tgggaaaggtg gcccgcocga gggtgggtgc caactgggtg ctacactgg ccgtggcggga ttgctgtgc tgttgtct tgcacatct ggcatggccc atggccgtg gaggccactg gcatgtggc gcatgtggcgt gtcggggcgt gocctccatc atctgtcga ccatgtatgc cagcgtctcgt ctctggcag ctctcgtgc cgaactctgc ttctggctc tcgggctgc ctgtgtgct acgtgtcagc gggtgtgcgg gggtggggc cagctgggac actgggcttg ctgtcaccc tgcctccgc calctacgc cggctgaccc agggagacatt cccagcccg ctgcagtgtg tgggtgacta cggcggtccc tccagaccg agaatcggt gactgccatc cggttttt ttgcttct gggtggccctg g'ggccgtgg ccagctgcca cagtgcctc ctgtgtcggc cagcccgacg ctgcocggcg ctgggcacag ccatgtgtt gggtgtttt gtctgtgg caoctacaa cctgtgggg ctgtgtcga ctgtggcgc ccaagaactc gcatctcgg ccaaggccct gggggctgaa cccctcagc tgggocctgc cctgcctcac agctgcctca atccatgct ctccgtat ttggagggg ctcaactcg ccgtgtcagc cagctgctt gtcactgggc ctggagggag tccagggccc agggacgaag tgggtgacg aagaaatoca ccagccatga cctgtgtcgt gtagtggagg tgaagctcgg agagacattg tgggtgtgta tctctatc tcatctaca agactggctt caggcatagc tggatccagg agctcaatga tgtctcatt ttatctct cttatcaa cagatatoca tcatgactt gctatgca aggcctttt aggcactaga gatatagcag tgaacaaaac agacacaaat cctggcc MGNDSVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P PGNAMVAWVA GKVARRRVGA TWLLHLA VAD LCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV algtggccc ctgtgtctt gggtccagc ctgtggctc tctgcaacc tggggagggg gcccattgt gctgtcaca gcaacttag algaaggggg actagctgtt gggtggggcgt ttccctcgg g'cgagggcga ggaggtcggc ctccgagcc ggacacggcc cagcagccct g'gtgtcaca ggtacagagg tgggtcggcc tgggtcgggg tcaagggtgac caggtcgtgg gtgtctcga gctggggccc aggtggccat ctgcgtctt g'gtgtggccc aggttctct caaacggcct gctctgggca ctggccatga aaatggccgt ggagggagat aacaacaaat cgggtcgtt gcccggggcgt cggctggggct agacatct tgalacgic tggagagcct tgggtggocat gaagcccagc ctatgtcc tggccaaggc aggcagccgc gacatggccg</p>	Homo sapiens
591	190437	G Protein- Coupled Receptor C5L2	NP_060955.1	<p>ccctgtgccc acgtgcttga caaatctaa ctctcaagg actccaaaa ccagagacac caggagccctg aatggggaac gattctga gctacgagta tggggattac agcgacctct cggaccgccc tgtggactgc ctggatggcg cctgctggc caltgacccg ctgcgcgtgg ccccgctccc actgtagccc gcatctcc tgggtggggt gcccggcaat gocatgg'gg ccctgggtggc tgggaaaggtg gcccgcocga gggtgggtgc caactgggtg ctacactgg ccgtggcggga ttgctgtgc tgttgtct tgcacatct ggcatggccc atggccgtg gaggccactg gcatgtggc gcatgtggcgt gtcggggcgt gocctccatc atctgtcga ccatgtatgc cagcgtctcgt ctctggcag ctctcgtgc cgaactctgc ttctggctc tcgggctgc ctgtgtgct acgtgtcagc gggtgtgcgg gggtggggc cagctgggac actgggcttg ctgtcaccc tgcctccgc calctacgc cggctgaccc agggagacatt cccagcccg ctgcagtgtg tgggtgacta cggcggtccc tccagaccg agaatcggt gactgccatc cggttttt ttgcttct gggtggccctg g'ggccgtgg ccagctgcca cagtgcctc ctgtgtcggc cagcccgacg ctgcocggcg ctgggcacag ccatgtgtt gggtgtttt gtctgtgg caoctacaa cctgtgggg ctgtgtcga ctgtggcgc ccaagaactc gcatctcgg ccaaggccct gggggctgaa cccctcagc tgggocctgc cctgcctcac agctgcctca atccatgct ctccgtat ttggagggg ctcaactcg ccgtgtcagc cagctgctt gtcactgggc ctggagggag tccagggccc agggacgaag tgggtgacg aagaaatoca ccagccatga cctgtgtcgt gtagtggagg tgaagctcgg agagacattg tgggtgtgta tctctatc tcatctaca agactggctt caggcatagc tggatccagg agctcaatga tgtctcatt ttatctct cttatcaa cagatatoca tcatgactt gctatgca aggcctttt aggcactaga gatatagcag tgaacaaaac agacacaaat cctggcc MGNDSVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P PGNAMVAWVA GKVARRRVGA TWLLHLA VAD LCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV algtggccc ctgtgtctt gggtccagc ctgtggctc tctgcaacc tggggagggg gcccattgt gctgtcaca gcaacttag algaaggggg actagctgtt gggtggggcgt ttccctcgg g'cgagggcga ggaggtcggc ctccgagcc ggacacggcc cagcagccct g'gtgtcaca ggtacagagg tgggtcggcc tgggtcgggg tcaagggtgac caggtcgtgg gtgtctcga gctggggccc aggtggccat ctgcgtctt g'gtgtggccc aggttctct caaacggcct gctctgggca ctggccatga aaatggccgt ggagggagat aacaacaaat cgggtcgtt gcccggggcgt cggctggggct agacatct tgalacgic tggagagcct tgggtggocat gaagcccagc ctatgtcc tggccaaggc aggcagccgc gacatggccg</p>	Homo sapiens
592	190438	G Protein- Coupled Receptor Ls190438	LG94114	<p>ccctgtgccc acgtgcttga caaatctaa ctctcaagg actccaaaa ccagagacac caggagccctg aatggggaac gattctga gctacgagta tggggattac agcgacctct cggaccgccc tgtggactgc ctggatggcg cctgctggc caltgacccg ctgcgcgtgg ccccgctccc actgtagccc gcatctcc tgggtggggt gcccggcaat gocatgg'gg ccctgggtggc tgggaaaggtg gcccgcocga gggtgggtgc caactgggtg ctacactgg ccgtggcggga ttgctgtgc tgttgtct tgcacatct ggcatggccc atggccgtg gaggccactg gcatgtggc gcatgtggcgt gtcggggcgt gocctccatc atctgtcga ccatgtatgc cagcgtctcgt ctctggcag ctctcgtgc cgaactctgc ttctggctc tcgggctgc ctgtgtgct acgtgtcagc gggtgtgcgg gggtggggc cagctgggac actgggcttg ctgtcaccc tgcctccgc calctacgc cggctgaccc agggagacatt cccagcccg ctgcagtgtg tgggtgacta cggcggtccc tccagaccg agaatcggt gactgccatc cggttttt ttgcttct gggtggccctg g'ggccgtgg ccagctgcca cagtgcctc ctgtgtcggc cagcccgacg ctgcocggcg ctgggcacag ccatgtgtt gggtgtttt gtctgtgg caoctacaa cctgtgggg ctgtgtcga ctgtggcgc ccaagaactc gcatctcgg ccaaggccct gggggctgaa cccctcagc tgggocctgc cctgcctcac agctgcctca atccatgct ctccgtat ttggagggg ctcaactcg ccgtgtcagc cagctgctt gtcactgggc ctggagggag tccagggccc agggacgaag tgggtgacg aagaaatoca ccagccatga cctgtgtcgt gtagtggagg tgaagctcgg agagacattg tgggtgtgta tctctatc tcatctaca agactggctt caggcatagc tggatccagg agctcaatga tgtctcatt ttatctct cttatcaa cagatatoca tcatgactt gctatgca aggcctttt aggcactaga gatatagcag tgaacaaaac agacacaaat cctggcc MGNDSVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P PGNAMVAWVA GKVARRRVGA TWLLHLA VAD LCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV algtggccc ctgtgtctt gggtccagc ctgtggctc tctgcaacc tggggagggg gcccattgt gctgtcaca gcaacttag algaaggggg actagctgtt gggtggggcgt ttccctcgg g'cgagggcga ggaggtcggc ctccgagcc ggacacggcc cagcagccct g'gtgtcaca ggtacagagg tgggtcggcc tgggtcgggg tcaagggtgac caggtcgtgg gtgtctcga gctggggccc aggtggccat ctgcgtctt g'gtgtggccc aggttctct caaacggcct gctctgggca ctggccatga aaatggccgt ggagggagat aacaacaaat cgggtcgtt gcccggggcgt cggctggggct agacatct tgalacgic tggagagcct tgggtggocat gaagcccagc ctatgtcc tggccaaggc aggcagccgc gacatggccg</p>	Homo sapiens

594	190484	G Protein-Coupled Receptor Ls190484	LG95579	AQDPVKPWQL LENMYNLTFH VGGLPLRFDS SGNVDMYDYL KLWVWQGSVP RLHDVGPFNG SLRTERLKIR WHTSDNQVRP QACAQKPVSR CSRQCQEGQV RRVKGFHS CC YDCVDCEAGS YRQNPD DIAC TFCGQDEWSP ERSTRCFRRR SRFLAWGEPA VLLLLLLSL ALGLVLAALG LFWHRD S PL VQASGGPLAC FGLVCLGLVC LSVLLFPQP SPARCLAQQP LSHLPLTGCL STLFQA AEI FVESELPLSW ADRLSGCLR G PWAWLVVLLA MLVEVALCTW YLVAFFPEVV TDWHMLPTEA LVHCRTSRWV SFGLAHATNA TLAFLCFLGT FLVRSQPGRY NRARGLT FAMLAYFTWVS F VPLL ANVQVV LRPAVMGMAL LLCVLGILAA FHLP R CYLLM ROPGLNTP EF F	Homo sapiens
595	190484	G Protein-Coupled Receptor Ls190484	ENSMPT7619	MEADLGATGH RPRTLEDDED SYPOGGWDTV FLVALLLLGL PANGLMAWLA GSQARHGAGT RLALLLSLA LSDFLFAA AFQILERHG GHWPPLGTAA C RFYYFLWGVS YSSGLFLAA LS LDRCLLAL CPHWYPGHRP VRPLPWVCAG VWVLA TLFSV PWLVFEPA AV WWYDLVICLD FWDSEELSLR MLEV LGGFLP FLLLL VCHVL TQATA CRTCH RQQP AACRG FARVAR TILS AYVVLRLPYQ LAQLLYLAF L WD VYSGYLLW EALVYS DYLI LNNSCLSPFL CLMASADLR T LLRSVLS SFA AALCEERPGS FTPT EPQT QL DSEGTPLPEP MAEAQS QMDP VAQPQVNPTL QPRSDPTAQ PQLNPTAQPS DPTAQPLNL MAEQPSDS VA OPOADTNVQT PAPAA SVPS PCDEASPTPS SHPTPGALED PATPPASEGE SSPSTPPEAA PGAGP	Homo sapiens

596	190595	G Protein- Coupled Receptor SH120	NM_016334		<p>agcaccitggg aaaaaggcaga ccgtgtgagg gggccgttgg ccacagctg cgttggccct cgttggccct ggggagagg ggg aatggagggc aggagccctc ctacacac ggcattgt tctgtatcga ctacagcacc atgtatctt cccaatctt atttttga ttgggtggc ttttctcat ggcgaattg tttaagact atgagatag tcatgtgt gtacaggtga tcttccgt gaegtgtga tttcttga ccaatttga gctcalc tttgaatt taggagtag tccgttatt ttacitggaa aatgaaccig tgcgtaalc tgcgtatctt ggtttcag gtgcctttt acattggcia tttatttg agcaatctt gactatcga taaacaacga cgtctttt ccgtctctt atggctgac ttatgtatt tctcttggaa actaggagat ccccttccca ttccagccc aaaaatcagg atctatcca tagaacaact catcagcccg gttgtgtga ttggagtga tctatggt ctctcttc gatttgggc tgcgaactgc ccaatcact acatgtctia ctctcagg aatgtgact acacagatatt tctagccctt gaaaggcgac tgcigcaaac catggatattg atcataagca aaaaagaaaag gatggcaatg gcacggagaa caatgtcca gaagggggaa gtgcataaca aaocatcagg ttctgggga atgataaaa gtgtacac ttacatca ggaagtgaat atctactt tatcaacag gaagtgtatg ctttggaaag attaagcagg cagcttttc tggaaacagc tgaatatt gctacacagg agagaataga atactocaaa accitcaagg ggaatatt taatttctt ggttacttt tctattia cgtgtttg aaaaattca tggtaacct caatattgt ttgatcgag ttgggaaaac ggaactgtc acaaggca ttgatcat tgggaatt cgggaatcc aattgatgt gaagtttgg tcccaacaca ttttctcat tctgttga ataatcag tcatcatc cagaggatg ctgatcact ttacaaagt cttttatgoc atctatga gtaagtccat caatgtcat gtctgtcat tagcacagat aatggggcag tactttgt ccttctgtct gctgatccga atgagtatg cittagaata ccgacacata atcactgaag tcttggaga acgtgagat accgttggct tgaatgtatc ttcttggta ggctctctc tagcatatc ttcttatt tggctcaca acaggcacca gaaagagcaaa tggcaccttg aacttaagcc tactacagac tgttagagggc cagtgttcc aaaaattaga taaagaggg ggaagaaatg gaacagggc ctgacattt ataaacaac aaaaatgcat ggttagcatt ttacactca tagcatatc ctccctc aggtgtatct atgaacatga ttgatcag ccagaacalg agaggggagaa ctacacaa acaatctca gcaagagagca tccgtgttgg atatgggctt ggtgtatgagg cggagaggag ccaagaaact aaggtgaaa aatcacatgg aacttgggg cagagacatgt ctatggtagc tgaagcaaac acgtatgatt tccgttttaa ggttcacatg gaaaggtta tgccttggc ttgatattg ctaataaaa tcaagagctg t MSFLDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTF AF SCTMFELIIF P EILGVLSNSS RYFHWKMNLC VILLVFMV PFYIGYFVS NIRLLHKQRL LFSCLL WLTF MYFFWKL GDP FPILSPKHGI LSIEQLISRV GVIGVTLMAL LSGFGA VNCV YTYMSYFLRN VTDTDLALE RRLQLTMDMI ISKKRMAMA RRTMFQKGEV HNKPSGFWM KSVTTSAG SENLTIQOE VDALELSRQ LFL ETADLYA TKERIEYSKT FKGYFNFLG YFYSYCVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGH IIVTSIRGLL IITLKFFYAI SSSKSSNVIV LLLAQIMGY FVSSVLLIRM SMPLEYRTHI TEVLGELQFN FYHRWFDVIF LVSA LSSILF LYLAKQAPE KQMAP</p> <p>aggctgcagg cgggcgttgc tggagcgggg ggcgcggccg cgcgcgagc atgtgactgc ggcgcgaagg cagcttggagc gtcggcgtc cgggcggccg ggggtcgaat gttgttggca tcaagagaga agatgagagc tcaacagggtg ctacacttcc tcttctt cgttatcacc tgggttggct ctgaanaacgc cagcacatcc cgaaggctgtg ggcgtgacct cctccctcag tacgtgtccc tgtgcgaact ggaagccatc tggggcatig tgggtgaggg ggttggccggg ggcggcgccc tgalcacact gctcttgaatg ctatctccc tgggtcggtt goccitcatc aaggaagagag agaaagagag cccgttgggc ctacacttc tgttctctc tctggggcgt ccttcttgc ctcttctt tgccttcatc atccagagag acgagagacat ctgtctgtc cgccgcttcc tctggggcgt ccttcttgc ctcttctt tgccttcatc atccagagag tggcggttgc ggaaggcttgg ggcgcatggc acggggccccc cgggcttggca gcttgggtggc cgttgggtgt gcttgaatgt ggttgcagatc atcatcgtc tggagtggtt ggttctcatcc gttcttgcgtg acacaaggcc agccgtgcgc taccagagcca tggagcttgt gattggccctc</p>	A	Homo sapiens
597	190595	G Protein- Coupled Receptor SH120	NP_057418.1		<p>MSFLDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTF AF SCTMFELIIF P EILGVLSNSS RYFHWKMNLC VILLVFMV PFYIGYFVS NIRLLHKQRL LFSCLL WLTF MYFFWKL GDP FPILSPKHGI LSIEQLISRV GVIGVTLMAL LSGFGA VNCV YTYMSYFLRN VTDTDLALE RRLQLTMDMI ISKKRMAMA RRTMFQKGEV HNKPSGFWM KSVTTSAG SENLTIQOE VDALELSRQ LFL ETADLYA TKERIEYSKT FKGYFNFLG YFYSYCVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGH IIVTSIRGLL IITLKFFYAI SSSKSSNVIV LLLAQIMGY FVSSVLLIRM SMPLEYRTHI TEVLGELQFN FYHRWFDVIF LVSA LSSILF LYLAKQAPE KQMAP</p> <p>aggctgcagg cgggcgttgc tggagcgggg ggcgcggccg cgcgcgagc atgtgactgc ggcgcgaagg cagcttggagc gtcggcgtc cgggcggccg ggggtcgaat gttgttggca tcaagagaga agatgagagc tcaacagggtg ctacacttcc tcttctt cgttatcacc tgggttggct ctgaanaacgc cagcacatcc cgaaggctgtg ggcgtgacct cctccctcag tacgtgtccc tgtgcgaact ggaagccatc tggggcatig tgggtgaggg ggttggccggg ggcggcgccc tgalcacact gctcttgaatg ctatctccc tgggtcggtt goccitcatc aaggaagagag agaaagagag cccgttgggc ctacacttc tgttctctc tctggggcgt ccttcttgc ctcttctt tgccttcatc atccagagag acgagagacat ctgtctgtc cgccgcttcc tctggggcgt ccttcttgc ctcttctt tgccttcatc atccagagag tggcggttgc ggaaggcttgg ggcgcatggc acggggccccc cgggcttggca gcttgggtggc cgttgggtgt gcttgaatgt ggttgcagatc atcatcgtc tggagtggtt ggttctcatcc gttcttgcgtg acacaaggcc agccgtgcgc taccagagcca tggagcttgt gattggccctc</p>	P	Homo sapiens
598	190599	G Protein- Coupled Receptor GPCR5B	NM_016235		<p>aggctgcagg cgggcgttgc tggagcgggg ggcgcggccg cgcgcgagc atgtgactgc ggcgcgaagg cagcttggagc gtcggcgtc cgggcggccg ggggtcgaat gttgttggca tcaagagaga agatgagagc tcaacagggtg ctacacttcc tcttctt cgttatcacc tgggttggct ctgaanaacgc cagcacatcc cgaaggctgtg ggcgtgacct cctccctcag tacgtgtccc tgtgcgaact ggaagccatc tggggcatig tgggtgaggg ggttggccggg ggcggcgccc tgalcacact gctcttgaatg ctatctccc tgggtcggtt goccitcatc aaggaagagag agaaagagag cccgttgggc ctacacttc tgttctctc tctggggcgt ccttcttgc ctcttctt tgccttcatc atccagagag acgagagacat ctgtctgtc cgccgcttcc tctggggcgt ccttcttgc ctcttctt tgccttcatc atccagagag tggcggttgc ggaaggcttgg ggcgcatggc acggggccccc cgggcttggca gcttgggtggc cgttgggtgt gcttgaatgt ggttgcagatc atcatcgtc tggagtggtt ggttctcatcc gttcttgcgtg acacaaggcc agccgtgcgc taccagagcca tggagcttgt gattggccctc</p>	A	Homo sapiens

599	190599	G Protein- Coupled Receptor GPCR5B	NP_057319.1	<p>atctacagaca tggtaactgct tgggttcacc ctgggggcttgg cccctctcac tctgtgcggc aagttcaaga ggggggaagct gaaaggggcc ttctctctca tcaagccctt cctctctgtg ctatctgtgg tggccctgtgat gacccalgtac cttcttggca atgtcaagct gcagcagggggg gtagcccttgg aagacccccc ctgtggccalc acgtctggcggg ccagggggcttg ggtctctgtc atctccacg ccatcccttga gataccactg accctctg cagcccttga gggagagacacg ocaacactat tctgacacgtc gacagccacggg atggcgggagga cggcccttctga gggagggaggtg cagctgtccgc gggccctatlat gggagaaacag gcccctctcca tggatgaaca caatgtcagat ctcggaaacag caaggatcttcc caacgtgcagc ttggggaaaaa gacccaggtgg cagcttggggg aaaaagccca ggcctccgtt tagaagcaaac gttgtatcagc caactgtgat gggccgtctgt ctcaacgtgtg gtaacacalccc aactgtctccg ccaagtcaca cagggaaagaca cctttgttga aagactttaa gttccagagga acagaaattt ccttaaccga ttggccctcc tggctgtgtc tttcttgggg gaaagaaatcgg taacagtgtc ggaacacgggc cgtctccacag ccaaggaaatt tggaaatcct agccaagggggg attctgttga aatgtgaaca ctgacgaact gaaagactaa caacggactgc ccggccctcc cctggccacac acacagggacac gtaataccag accaacctca atccccgcaa actaaagcaa agctaatgtc aaaaagtatt aggtctcactg gaaagatgttgg ctggggaagac tgtttcatcc tctggggggga gaaacagaac aaattcacag ctgggtggggcc agacgtgggtgt tgggtgggggg tggggggggctc ccactctat cactctccc cagcaaggtgc tggacccagc gtagccctctt ggaagatgaac gttgtgttga ggacaaatgg ggaacttggcc accgtgtgc ctgggtgtgt gacatttca ggggggggtcag gaaaggtttaa ggaaggttggg gtgggtatcc aaggttgaagg ccaactgtat cgtgggggttga gctttatagc cagtaagaggt ggaaggggaccc tgggtcaggtc caaaagaaagag gcccctctgggg tgaagaggtg accatcacat ttggaaagtg atcaaacact tgccttctta tgggggtctct gcttaattgt ctaaggttga aacacagggcc ccggcccttc cctgttgaag ccaagaaat atttgggtt gggggcagcag tccctcttc cccttgcac ctgcctgt tctacact accgggtgtat ctcaaatcc tctccaat tttccctt altatttca agagctccaa tgggggtctcc agctgaagac cccctcggga ggcaggttgg aaggcagggca ccagggcaggg ttctccgga tgaatgtcaa tagcaggggtc tcaagggttc ccactagggat gcaagagatga cctctgcgtc cctcacagc agtgacacact cgggtctctt ccgtgtctat ggtgaatatt cctgttgaaga atggatcaca tgaagggttc ttgtgtct tggaggggtgt ggggggtatatt tgtttgtgt ttttgtcag gttccatga aacagccct ttcaagccc attgttctg tcatgttct cactgtct gagaagatca ttctttgt atttgcatt tgaacatct cggccattca aagcccccac gttctgtga ctgttggcc agcataacct ctaggatcga ttcaagggcag agttttaac tgaaggcag gaaatgataa atgaagggtgg gttcttctg agatactta atactacat tgcctttct ataaactac ccataagcc ttacactta aagaaaaatg aaaaagggtta gtttggggg gcccgggggag gactgacccg tccataagcc agtagctcag agctagat gttcaataa accctttag attctcaa aaaaaaaaaa aaaaaaaa MFVASEKMR AHQVLTFLL FVTSVASEN ASTRGCGLD LLPQYVSLCD P Homo sapiens</p>
600	190602	G Protein- Coupled Receptor GPCR150	NM_014373	<p>LDAIWGIVVE AVAGAGALIT LLLMLLLVR LPFIKEKEKK SPVGLHFLFL LGTLGLFGLT FAFIQEDET ICSVRRFLWG VLFALCFSL LSQLWRVRRL VRHGTGPAGW QLVGLALCLM LVQVIAVEW LVLTVLRDTR PACAYEPMDF VMALIYDMVL LVVTLGLALF TCGKFKRWK LNGAFLITA FLSVLIWVAW MTMYLFGNVK LQQGDWNDP TLAITLAASG WVFVIFHAIP EIHCITLLPAL QENTPNYFDT SQPRMRETAF EEDVQLPRAY MENKAFSMD EHNALRTAGF PNGSLGKRPS GSLGKRPSAP FRSNVYQTE MAVVLNGGTI PTAPPSHTGR HLW A Homo sapiens</p> <p>ggggctcga ggtgggtggca gggccggccc ctgacgtccg gaggacgaagc caggagccgg gcccctggag gtaggttggg ctgggaaggaa ccgtctcgc ttgctctac acttgcgcaa atgtctcga gttactcac atagcatatt ggtatataa aatgaatgc aagggaacca aataaacata attgaaggca gtaaaaatga aattaaatgg gaaagatcac agtcaaggaa gacccactgg agaaggacaga aatgaaggca gtttttatc atgtgtattt cagcaggtct tctgtatatt taacaaaaa tatgactgct ctccttcaag agaaactgct ttltcagtac cagttacgc aaacaaacca gcccttagac gtaactatc tgcattctt gactacactt gggaaaaat tattaaatat cctttacata ggaatgaga gaaaaaacac ctggcaaaat ttatggaaat attttgcat ttactagca ttcttgaic</p>

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1	<p>ttttactttt ggtaaacatt tccattalat tgaatttcag ggattttgta ctttaagca taaggttcac laaalaccac atctgcoctat tactcaaat taittcoctt actiatgctt tttagcatta tccagtttc ctgacagctt gtaagattga ttgcoctgaat ticttaaaa caaccaagct ttattttaag tgcataaaat taitttatt cttacagta atttaattt ggaatttcagt ccttgcttat gttttggag accagcccal ciaccaaaagc cigaaggcac agaatgcta ttctgctac tctcttctt atgcagcat tcaaggttac tggctgcat ttttcatggt gatgattta ttgtagctt tcaaacctg ttgggaagaa gtaactact tggtaagc taccaggtata acttcoctata tgaatgaac tatcttalat ttctcttt catccacac cagttatct gtaagacta aaaaattt ctatccaag ctatgctt gttttccag taccgggta ccaattgac tactcaggt aatcattgt ttacttaag ttgacttcc agcatalatt ggaatgaala ttccctgggt atactgttt aalagtttc tcatgttac agtgatgg tttaattgg acaagcttaa tttaaaagac attggattac ctttggatcc atttgcaac tgggaagctt gcttcatcc acttaaat octaatctt agcaaatga aaagccctata tcaataatga tttgtaala ttattaalta aaagttaacg ctgtcaaaag atcataatt tatgaacaga aagaactcag gacattataa aaaaataact gaactaaaac aactttgccc cctgactga tagcaattca gaaatgctt ttgaaggcc talaccaggt ataaatagt gttttattt aaaaacaaaa laattccaag aagtittat agttaticag ggaactata ttacaatat tacttgta ttacacaaa aagtgataag agttaacatt tggctatct gatgtttg ttacacaaa aaactactgg atgcacacgt ttatglaaat ctgagattc actgacaact ttaagatc aacctaaaca tttttatlaa atgtcaaat gtaagcaaga aaaaaaaa</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788	<p>MTALSSNCFS FQYQLRQTNQ PLDVNYLLFL ILGKILLNI LTLGMRKNT CQNFMEYFCI SLAFVDLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGLHY PVFLTACIDY CLNFSKTTKL SFKCQKLFYF FTVLIWISV LAYVLGDPAL YQSLKAQNAY SRHCPFYVSI QSYWLSFFMV MILFVAFITC WEEVTTLVQA IRITSYMNET ILYFPFSSH S YTVRSKKIF LSKLIVCFLS TWLPFVLLQV IIVLLKVQIP AYIEMNIPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP LTPNLEQIE KPISIMIC</p>	A	Homo sapiens

[illegible]

[illegible]

[illegible]

[illegible]

604	190627	G Protein-Coupled Receptor GPR41 & GPR42	NM_005304	GTWAAWVPL PTVDPDHAH YTLGTVILLV GLTGMLGNLT VIYTCRSRS LRTPANMFII NLA VSDFLMS FTQAPVFFTS SLYKQWLFGE TGCEFYAFCC ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWLYALA WSLPPFFGWS AYVPEGLLTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYIFIR AIRETGALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VLLFVLSWA PYSVALVAF AGYAHVLTPY MSSVPAVIAK ASAIHNPIY AIHPKYRVA IAQLPLCLGV LLGVSRHSR PYPYSRSTHR STLSHTSNL SWISIRRRQE SLGSESEVGW THMEAAAVWG AAQQANGRSL YQGLEDLEA KAPPRPQGHE AETPGKTKGL IPSQDPRM	sapiens
605	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	atggtatcac gcccagacca gtcctacttc tccggcaatc acttggttgt cttctcgggt tactcttca cttcttgtt ggggtctccc ctcaacttc tggcccttgtt ggtctcgtt ggcacagctgc agcgcgcgcc ggtggccgtg gacgtgtctc tgcctaacct gaccgcctgc gacctgtcc tgcgttgtt cctgcttcc cgtatgttgg aggcagacca tggcatgcac tggccctcgc ccttcaact ctcgcacac tctggttca tctttcac caccatcat ctaccgcc tctctcggc agctgtgagc atfgaacgt tcttgagt ggcacacca cgtgtgtaca agaccggcc gaggctgggg caggcaggtc tgggtgagt ggcctgtcgg cgttggtct cgtctactc cagcgtgtc tactgtalag aattcagg ggcacatcc cacagccagg gaccaaagg gacctgtac cttgggttcc ggaaggacca gctagccatc cttctgccg tgcggctggg gtaggtcgtg gtctcttg tggccggt gattcatcc agtactgt acagccgct ggtgtggatc ctggcagag gggggcagcca ccgcccggcag aggaagggtt ggggttgtt ggcggccag cgtctcaact tctgtctg cttggccc tacaacgtgt ccatgtgt gggtatata tgcgggtgaa gcccggcatg gtaggtatc gtagcttc tcaacacct gaactcgtt gctgacct tgttacta cttctctc tccgggttc aagccgact tcatgagctc ctgaggagt tgtgtgggt ctggggccag tggcagagg agagagcat gtagctgaag gtagcagaag gaggggagga gtagagagg gaccagacc cigaagaaga gaccagtga cactcagag gctgtggaac tgggtggcag gtagctgtg ctgaagcta g MDTGPQDSYF SGNHWFVFSV YLLTFLVGLP LNLALVVFV GKLQRRPVAV DVLNLTAS DLLLLLFLPF RMVEAANGMH WPLFILCPL SGFIFFTTIY LTALFLAAS IERFLSAHP LWYKTRPLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVPLIIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNFLVFCGP YNVSHVVGYI CGESPAWRIY VILLSTLNSC VDPFVYFSS SGFQADFHLEL LRRLCGLWGQ WQESSMELK EQKGEEQRA DRPAERKTS HSQGCCTGGQ VACAES caagactgt cctctgtcc gactacaaca gattggagcc atggcttgg agcagaacca gtaacagat tattataig aggaaaatga atgaaatgg actatgact acagtcaata tgaactgac tgtatcaag aagatgtcag agaatttga aaagtttcc tccgttat cctacaata gttttgtca ttgagctgc aggcacatcc atggtagtgg caattatgc ctattacaag aaacagagaa ccaaaacaga tgtatcac ctgaatttgg ctgtagcaga ttactctt ctatcac tgccttttg ggttgttaat gcatltcag ggttggttt agggaaaata atgtgcaaaa taactcagc ctgtacaca ctgaatttg tcttggaat gcatgttcg gctgtatca gcatagacag atatgtgca gtaactaag tccacacca atcagaggtg ggaataacct gctggatcat cgttttgt gtctggatgg ctgccatct gctgagcata cccacgttgg ttittatag agtaaatgac atgtcaggt gcaatccat ttccccgc taccagga calcaatga agcatgtat caaatgtcag agatctgtg ttatttga ttaccccttc ttatttgg ggtgtgtc ttatcacag caaggacact catgaagatg ccaaacatta aaatatcag accctaaaaa gttctgtca cagtcgtat agtttcat gtactcaac tgccttataa catgtcaag tctgtccgag ccatagatc catctactc ctatcacca gctgtcaacat gagcaaacgc atggacalcg ccatccaagt cacagaagc alt-gcactct ttacagctg cctcaacca atctttatg	Homo sapiens
606	190701	C-C Chemokine Receptor 11	NM_016557	atggtatcac gcccagacca gtcctacttc tccggcaatc acttggttgt cttctcgggt tactcttca cttcttgtt ggggtctccc ctcaacttc tggcccttgtt ggtctcgtt ggcacagctgc agcgcgcgcc ggtggccgtg gacgtgtctc tgcctaacct gaccgcctgc gacctgtcc tgcgttgtt cctgcttcc cgtatgttgg aggcagacca tggcatgcac tggccctcgc ccttcaact ctcgcacac tctggttca tctttcac caccatcat ctaccgcc tctctcggc agctgtgagc atfgaacgt tcttgagt ggcacacca cgtgtgtaca agaccggcc gaggctgggg caggcaggtc tgggtgagt ggcctgtcgg cgttggtct cgtctactc cagcgtgtc tactgtalag aattcagg ggcacatcc cacagccagg gaccaaagg gacctgtac cttgggttcc ggaaggacca gctagccatc cttctgccg tgcggctggg gtaggtcgtg gtctcttg tggccggt gattcatcc agtactgt acagccgct ggtgtggatc ctggcagag gggggcagcca ccgcccggcag aggaagggtt ggggttgtt ggcggccag cgtctcaact tctgtctg cttggccc tacaacgtgt ccatgtgt gggtatata tgcgggtgaa gcccggcatg gtaggtatc gtagcttc tcaacacct gaactcgtt gctgacct tgttacta cttctctc tccgggttc aagccgact tcatgagctc ctgaggagt tgtgtgggt ctggggccag tggcagagg agagagcat gtagctgaag gtagcagaag gaggggagga gtagagagg gaccagacc cigaagaaga gaccagtga cactcagag gctgtggaac tgggtggcag gtagctgtg ctgaagcta g MDTGPQDSYF SGNHWFVFSV YLLTFLVGLP LNLALVVFV GKLQRRPVAV DVLNLTAS DLLLLLFLPF RMVEAANGMH WPLFILCPL SGFIFFTTIY LTALFLAAS IERFLSAHP LWYKTRPLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVPLIIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNFLVFCGP YNVSHVVGYI CGESPAWRIY VILLSTLNSC VDPFVYFSS SGFQADFHLEL LRRLCGLWGQ WQESSMELK EQKGEEQRA DRPAERKTS HSQGCCTGGQ VACAES caagactgt cctctgtcc gactacaaca gattggagcc atggcttgg agcagaacca gtaacagat tattataig aggaaaatga atgaaatgg actatgact acagtcaata tgaactgac tgtatcaag aagatgtcag agaatttga aaagtttcc tccgttat cctacaata gttttgtca ttgagctgc aggcacatcc atggtagtgg caattatgc ctattacaag aaacagagaa ccaaaacaga tgtatcac ctgaatttgg ctgtagcaga ttactctt ctatcac tgccttttg ggttgttaat gcatltcag ggttggttt agggaaaata atgtgcaaaa taactcagc ctgtacaca ctgaatttg tcttggaat gcatgttcg gctgtatca gcatagacag atatgtgca gtaactaag tccacacca atcagaggtg ggaataacct gctggatcat cgttttgt gtctggatgg ctgccatct gctgagcata cccacgttgg ttittatag agtaaatgac atgtcaggt gcaatccat ttccccgc taccagga calcaatga agcatgtat caaatgtcag agatctgtg ttatttga ttaccccttc ttatttgg ggtgtgtc ttatcacag caaggacact catgaagatg ccaaacatta aaatatcag accctaaaaa gttctgtca cagtcgtat agtttcat gtactcaac tgccttataa catgtcaag tctgtccgag ccatagatc catctactc ctatcacca gctgtcaacat gagcaaacgc atggacalcg ccatccaagt cacagaagc alt-gcactct ttacagctg cctcaacca atctttatg	Homo sapiens

607	190701	C-C Chemokine Receptor 11	NP_057641.1	<p>ttttatggg agcatcttc aaaaactac ttaigaaagt ggccaagaaa tatgggtctt ggagaagagaca gagacaaagt grggaggagt ttcttttga ttctgagggt cctacagagc caacaggtac tttagact taaaggtaaa acgtctctgc ctttcttg galacatag aalgaigt tccctcaaa taaaacatct gcatatct gnaactcaba tcaagacgc cgttggtgca actataaa aagaatgggt tgggggaaagg ggagaaata aagccaaga agaggaacaa agataaaaa tgaataaac algaaatla aaatgaaca ttaggaaaa taatgtaac aggcataagt gaataacact ctctgtaac gaagaaagagc ttgtgtgga taatttga tctgtgtc agtgggtctt alacaaat acacaagt taaaagaca cagaactata tacacatt giacaatt caatttctg gtttgacat tatagtata tgaagacatt ggaggaaaaa gggtgaaggg taccagggac cacttggac calctttgta acttctgt aattlaaat aattcaaaa taaacaagt taaaaaaa cccacttga taaagttag gccactaaa acagattat aaaagggtc algtaaaag gcattlaaa taattttaa ttaataagt ttaatacaa gaaggtatc cctgcataat tttagtact gaataagtat gcagcagaac tcaactatc ttuttcctg ttittttaa attgtaaagt aattttaa aatccactc ctocaaaaa gcaataaaaa aaaaacaac tataaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa</p>	P	Homo sapiens
608	190705	G Protein-Coupled Receptor SALPR	NM_016568	<p>MALEQNQSTD YYEENEMNG TYDYSQYELI CIKEDVREFA KVFLPVFLTI VFVIGLAGNS MVVAIYAYYK KQRTKTDVYI LNLAVADLLL LFTLPFWAVN AVHGWVLGKI MCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWIIFC VWMAILLSI POLVFYTVND NARCIPIFR YLGTSMKALI QMLEICIGFV VPFLIMGVY FITARTLMKM PNKISRPLK VLLTVIVFI VTQLPYNIVK FORAIDIYS LITSCNMSKR MDIAIQVTES IALFHSCLNP IL YVFMGASF KNYVMKVAKK YGSWRRQRQS VEEFPDSEG PTEPTSTFSI</p> <p>gatttggga gtagcgcc agtgcocag tgaocggg acacggagag gggaagcttg cgttgiacat aaggacatag ggactccgag ctggctgga gnaoccttg agcogagtg ctgctctac gggtgcact cctcaactt gctocaaagc agcgcctgag ctaactct ggttcaaggc cgttcgctgc ggcocaggac gccttagta cccagtctt gggtctctc ttcagttagct gcttgaag ctccacgca cgttcccgag gctagccggc caaaaaact gggtgaaccc gtttatct aggctctgic cccagaaca tgaactagag gtaacctgac algcaalgc cagatgagc cagatagcc accatgaala aggcagag cggggagaaag ctgagagaac tcttcaigt ggttccggag ctctggaggg cggccaacac gagtggtaac ggctcgtc agcttccgga ctgtgttg gggtgggg gtagtggcc ggagggcgcc cggcaggac atccccgggg cagccggcg ggagagagc cggacagaa ggccccgggg cggatttca tcaagctgt gtagtgggg gtagtggccc tgggttggc gggaacctc ctggctctt accatgaaa gagcagcag gggtggcgga agtctctat caactctc gtaccaacc tggcctgac ggactttcag ttgtgtca ccttgcctt ctggcggttg gagaaagctc tgaattcaa algccctc ggcaaggcca tgtgaagat cgtgtccat gtagagcca tgaacatgta cggcagcggt tcttctca ctggcaltg tgtgacgc taccattgg tggccctggc tctgaagagc caocgggaoc gagagacagc cgggggggac tgcctggcc ggagcctgg ggacagctgc tgccttccgg ocaaggcgct gtagtgggg alctggggctt tggccggct ggctcgtc cccatggcca ttctccac cagctgaag gtagtgggg agtagtgggt cctgggtgtt ttccgggaca agtttctggc cggcagagc cagtctggc tggggcttca ccaactggc aaggtgtgt tgggtctgt gcttccggc ggcatcalt tctgtgtc cctgtgtc gtagcttca tggcgagcc cggcgcgggc ggagacaaag gagggggcgc ggtagccgga ggagccgga cggagagcag cggccggaga ctgttgagag tcaaccaatc agtgaacatc gtttctgt ccttctgt gttgtgtc ccaaacagc cgttccacac ctggagagat ctacaaagt tcaacgggtt ggcctttagc ggtagccgga ggatagcgt ttccctgtc gtagtggct agcgtctac aacagctgc tcaacccgt caggtgalt tctgtgtc gtaggttccg aaggtgtc agtggctgc tggggcgtc cgtgtctct tggatcaca ccttactgc cctgtgtc gtaggttccg aaggtgtc agtggctgc tggggcgtc cgtgtctct tggatcaca gcatggcc cttacagcc actacagc cggagcagc gtagtgggg ctggcgcc cggcgccgc ccatggggcc</p>	A	Homo sapiens

609	190705	G Protein- Coupled Receptor SALPR	NP_057652.1	<p>ggcgaagccgg acctgctctta ctaccacct ggccgctcggg tctacagcgg ggccggcgctac gaccctgctgc ccagcagctc tgcctactga cgcaggccctc aggccagggg cgcgcgcgcg ggccaaaggcg gccctccocg ggccgtaaag aggtgaaagg atgaaggagg gctgggg</p> <p>MQMADAATIA TMNKAAGGDK LAELFSLVPD LLEAANTSNG ASLQLPDLWW ELGLELPDGA PGHPGSGG AESADTEARV RILISVVYVW VCALGLAGNL LVLYLMKSMQ GWKSSINLF VTNLALTDFQ FVLTLFWAV ENALDFKWPFF GKAMKIVSM VTSNMVYASV FFLTAMSVTR YHSVASALKS HNRTRGHRGD CCGRSLGDSC CFSAKALCVW IWALAALASL PSAIFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRRRA GTKGGAAVAG GRPTGASARR LSKVTKSVTI VLSFFLCWL PNQALTWTSI LIKFNAPFS QEYFLCQVYA FVSVCLAHNS NSCLNPVLYC LVRREFRKAL KSLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYPP GVVYSGGRY DLLPSSAY</p>	P	Homo sapiens
610	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NM_018970	<p>ggcagaggga ttactgct gctcaagat cagattatta cgtagagaga gatttttatt ttgtttca ttaacagatt attataaagc aaaaagcatg cagaaagaga agcagacgtt ttacattggg aattatgaa agcggctcgtg ctatgttttg gtagggagaa tggggaagttg ttgctaaaa ttatataca cctccaaaa caaaacttt cggaaatggg aaataaagaa aatgcatgat tctagaggca ttcctaaagca cccagctgc aggttttttg gttctgttgg tatcatocga ccgtttgggac tggtaggggc ttactgagag ctccattct ggaaaagccit acaaagactga ggaaatacag actgcgaalc acggggaaacg gttcccttgc agcacagaaag caactctct cccacalcic gcatactcg atggcaaac aagtggaaga aagagggagag calgactgca gatcagatca gttctcttg tggattatat ttacgaaaa atgtatggat ctatctttc ctgtctta tatctagat algagacttg actgaggtcg tatcctalc ctccatccat ctatggcgaa ctatagccat gcagctgaca acattttgca aaatcttgc ccttaacag ctttttgaa actgactcc ttgggtttca taalaggagt cagcggtggg ggcaacctcc tgaatccat ttgtctagtg aaagataaga ctttgcatag agcaccttac tacttccgt tggacttttg cgttcagat atccicagat cgtcaatttg ttcccaattg gtttcaact cgtcaaaaa ttgcttcaacc tggacttalg ggactctgac ttgcaagtg atggccttic tgggggggttt gttcctgttic cacactgctt tcatgctctt ctgcatcagt gtcaccagat actagctat cggccatcac cgtcttata caaagaggct gaccttttg acgtgtcttg cgtgactcg tatgtgttg actctgtcg tggccatggc atttccocg gtttagacg tgggcactta ctatcatt agggagggag atcaatgcac ctccaacac cgtctctta gggtctaaiga ttcttagga ttatgtcgc ttctgtct catctocla gccacacagc ttgctaacct caagctgata tttttctgc acgactgaa gaaaatgaa cagttccagt ttgtagcagc agtcagccag aactgggacti ttcatgtcc tgggccaagt ggccagggcag ctgccaatg gctagcaggga ttgggaaggg gttccacacc acccaacttg ctgggcatca ggcaaatgc aaacaccaca ggcaagaaga ggtctattgt cttagacgag ttcaaatgg agaaagaaat cagcaagaa ttctataaa tgaatttct gtttctaac ttgtggggcc cctactgtt ggccgtgtat tggagaggtt ttgcaagagg gccgtgtaga ccaggggggat ttctaacgc tgcgtcttg atgagtttg cccaagcag aaataact ttgtctgca ttttcctcaaa cagggggctg aggcgtgt tcaagcaaac ccttcttac tgcagaaaat ccaagttacc aagggaacct tactgtgtta tatgaggag catctgtaa tcttagcct tggaaaact aacctctct gctgaagcaat tggggccat agccataatt tgaagaagaaa ttcaagaa gaalcaagcag tttaaggat ttgggcaaca ttctgcagc ttgcaalag ttacccata atccataatt aaatctcaga gttatccctg tgaactgcag caaagggttg taatagaag gggtactgaaac cactgoccta agttcttta tgggtgcaaa aactagataa tgaagtagc aggtgctaa gataaggtc tatgtcacta calatgaaaa aacatcaaaa aacaatagc attggacatc ttaataaatt aagttgacat gaggtaaatg tggataaa aactaaatt agaaattga agacttaaa acattcata ctacttgt ttggcaaga claaaatt tggggacta aggtactgta atccacaaa gacgtgcca ttgaatttg gaaatcaca cttaaaaac cgccctgttaa gttctggggg gcatccaaa gcatgtatatt gggttccatt ttgtgtat taatacatt ctatttctaa</p>	A	Homo sapiens

611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>ataccacttt cctcatctac tagtaagatt gctagcaattg aacigtatua tgggttttt gttgattgg tataaagttt ticcaattca ttatatttt acaaatgcta gatattgctc tgggagggaac catlaalggt accagctgt cacaactgag cagtictaat aalgcagaat aaatacattg tgcctaaag ggrtaictag tatcttcat cttaattag acigagagcaa atagccaagg gaaatacaat cagtaactgg tcalggcat gcaltaaaa gtcagaggaa gactattat tacttttcc ttttttcc acatgggtg aaactlaaag tgcacalcac tgaataaag agattttct ctacgggtg ctacccttc taaactgic taaagaagcag gcaattgatg tcttctttag gcaagcttt gttatactt gctgcaagg ggaagaccaca gacttagat gacatcctgc acaattggg aagcatttat tctactgaag gcaagcttt gttatactt tcgacatt cagtgatag gtaattaaa ttattcagt ttaactgt gaaagcttat atattgatt ciggatttt agaaatacat tagagctgt gactcatt cttaagata cagatgggtg aacticaa taaagtica ttgccaata ttaccctgg tagcctgta attttctga aataagttt acatttgg cacatacaa cgtttttt aattgggag gcaagcaca actaggaaga ctgactttat taagtttg cttttgatt ctgtagctia ctatitoca gactggaat gtaataaga taatacaat aalgctgata aactgacata atattatcg taaagcatt atttggtag ttattatat catcctctia ttattctaa algccagtag tattagaaga tggtaacctg cttagtaat tggctcagaa ttiaataa aacatcacac tttaattgg agcatagctac catagaatt tggggctia aatatacaac ttgaagaag aalggtttac actaacaata tgaacaaact agzaaaagt attatttgg ttgctttct gttgtttg ttattgttg gttttggg agtttttt tttttggta ttgataatt aagattaga atcaataac acagaattcc atattgctat agtactctg taaaagaat atcaataaa ataggaataa taaataatg aaatttca atgtaaaaa aaaaaaaa aaaa MANYSHAADN ILQNLSP.LTA FLKLTSLGFI IGVSVVGNNLL ISILLVKDKT LHRAPYYFL DLCCSDILRS AICPFVFNLS VKNGSTWYTG TLCKVIAFL GVLSCFHTAF MLFCISVTRY LAIAHHRFYT KRLTFWTCLA VICMVWTLVS AMAFPPVL DV GTYSFIREED QCTFQHRFR ANDSLGFMLL LALLATQL VYLKLIFFVH DRRKMKPVQF VAAVSONWTF HGPGASGQAA ANWLAGFGRG PTPPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TELFLTLWGP YLVACYWRVF ARGPVVPGGF LTAAVVMMSFA QAGINPFVCI FSNRELRRCF STLLYCRKS RLPREPYCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggctagtg agctcttc cagctgccc atcggtctcc actgggggt gctgtccaag tgcctgggt acagcaaggc cgcatcc-gac ccccttggt actcttact ggcacacag tacccgcaaa gctgcaagg gattctgaac aggcctcgc acagcgtc catcactcc tctggctca caggcgtc tcaagcag aacattcgc cgggtctga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRRA PALFTLNLTC GNLLCTVWNM PLTLAGVVAR RQAGDRLCR LAAFLDTFLA ANSMLSMAAL SIDRWVAVVF PLSYRAKMR RDAAALMVAYT WLHALTFPA ALALSWLGFH QLYASCTLCS RRPDERLRF VFTGAFHALS FLSFVVLCC TYLKVARFHC KRUDVITMQT LVLVDLHPS VRERCLEEQK RRRQRATKKI STFIGTFLVC FAPYVITRLV ELFTVPIGS HWGVLSKCLA YSKAADPFV YSLLRHQYRK SCKEILNRLL HRRSIHSSGL TGDSSHQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>atggccaaca ctacggaga gactgaggag gtagggggg cctgtccoc accgtccga tcaactatg tgaagctgtg actgtggga ctgattatg gctgtagctt ggggggtaac gccatctgt cccgtctgt gctcaaggag cgtgccctgc acaaggctcc ttactactt cgtctggacc tgtgcttggc cgaaggcata cgtctgccc tctgtccoc ctgtctgc gcttctgic ggcacggctc ttatggacc ttacgtcac tcaactgcaa gattggcc ttatggcc tctcttttg ctccaagcg gcttcaagc tgtctgcat caggtcacc cgtacatag ccacggcca ocaagcttc acagcttc gcatgacact ctggacatgc ggggctgca tctgcatggc ctggaccctg tctgtggcca tggccctcc accgtctt gacgtgggca cctacaagt tattggggag gagggacagt gcatcttga gcatgctac ttcaaggcca atgacacgct gggcttcatg ctatgttg cgtgctcat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969		A	Homo sapiens

615	190741	Sreb3	NP_061842.1	<p> egagctacc catgtctgt acggcaagct gctctcttc gattatcgt accgcaagat gaagccagtg cagatggctg cagccatcag ccagaactgg acattcatg gtccggggc caccggccag gctgtcgcga actggtcgc cggcttggc cgtggggcca tgcaccaac cctgtgggt atccggcaga atgggcatgc accagccgg cggctatcgg gcatggacga ggctcaagggt gaagaagcagc tggggccgcat gtctacggc atcacatcgt tcttctgt cctctggctc cctacatc tggcttgcct cggcgagtg ttgtgaag cctgtgtgt gcccaccg taactggcca cgtctgttg gattggcttc gcccaggctg ccgtcaacc aattgtct tctctgtc acaaggact caagagtg ctagggact acgccccctg ctggggcaca ggaaggct cggctccag agaaccctac tgtgtcgt ga MANTTGEPEE VSGALPPSA SAYVKLVLLG LIMCVSLAGN AILSLLVLKE RALHKAPYYF LLDLCLADGI RSAVCFPFVL ASVRHGSSWT FSALSCKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRY FKANDTLGFM LMLAVLMAAT HAVYGKLLLF EYRHRKMKPV QMVPASQNW TFHGPATGQ AANWIAFG RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQLGRMFYA ITLFLLLWS PYTVACYWRV FVKACAVPHR YLATAVWMSF AQAANPIVC FLLNKDLKKK LRTHAPCWGT GGAPAPREPY CVM gaggctcgt cacagactag agcaggaaag gggggaaagg cggcgataga ggttagcagg aatgtaat latcaggagc aggaacagaa ctaggggcat gcccaggct acacaggccc tcataggccc agtgttcca gtaggggagga aacagggaagc tggacttc tctctt cctctcgt tcttagctc aaggctcag cgtgtgagt gaattcaac cgtttttagt tggcactgt ccttgggcat ggaataagcc tctagtaacc cttctgccac aaacaccca aactctct tgaataat altatataa attctatt cacatgatt cctcattgc atcagccac tctctggag cagactaac tgaataat aagcaagaaa acagggttag gggagtaag taacttcc agtcacacgg clagtgaagca gacggctcgt gactccgag cctcgtctct tctctctt gggacacccat gctgattccc tgccttatg ccacttcca gggcccttgc ttggggccc aagggaacac ttgtgcaga ggaaggagggc cctctgcagc tttagaacag agggcagctct agtttggctc cgtctatc tgggacagggg aaactccag cttctctct ggggtggagg cttggggctg ccctccatag cggggtaact cttctctc tctctctc cttccctat gtagccct taccggggc cggcatgcaca tatccctgg catcagggct gtagctcggc cggccccc taccaccaat cttgaaccaac aggaagggtt ggggttgc ttccacac ccctctctg aggttggggc gtagggcagg gctcacaga gggccagagg aagcactaa ttacagcc tcttccatag agcttcagt gggctctgccc agcttggcag acacttgcag acctcttc tcatgacac caatcttga tgccttgcga tgcacact caatactct gctctccac ccacttct cggggccaat gctcgggag gcagttctgt gatttctgt gattctcga tgccttcca altccatgccc ctagggctca tgggttgcct gggctatggg cttgtggggg ccatttggct gttggggaat ttggcgggtc ttttgggtat gtagtaactgt ggggggaggg cccctggccc acctcagac accttct tcaaccttgc tctggggag ctagggacttgc cactcactt ccccttttgg gtagccgaggt cgggacagg ctttctggg ccttggggg gttccctctc caagatgggt ctagggcaga cttgtcccaa cgtctatggc agcacttcc tcatcagc gcttggggtt gctcgtact ggggttctg ctagggctggc gggccagggca cccacttc actcttctgg gcccgaatag ccaaccttgc agtttggggg gctgggttgc tgggttgc gggggcaggg gcttggggg tggaggggtt gttgttgggt gttgttgggt gcttgggt tttccacag aggttacttggc tggggggccta ccagctgcag aggggttgggt tgggttct gtttgggt gtttgggt ccaacagcta ccttctgtc cttggcttcc tgcagggcgg gcaacggggc cggcagggg gtaggggtt gtttgggt gtttgggt gtttgggt gtttgggt gtttgggt gtttgggt ocaacctgt gtttctctc tgggggttgc tgggttgaat tgggttgaat gtttcttca tacttctac acttattgt tccctgtcac tacttctg gcaacagca ataggttgc ccaaccttgc ctttctgt tcttggggc gtagggggg cagggctctgg cagggcactt caggggtatc cgggttggggc tgggttggggc tgggttggggc tgggttggggc </p>	P	Homo sapiens
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	<p> gaggctcgt cacagactag agcaggaaag gggggaaagg cggcgataga ggttagcagg aatgtaat latcaggagc aggaacagaa ctaggggcat gcccaggct acacaggccc tcataggccc agtgttcca gtaggggagga aacagggaagc tggacttc tctctt cctctcgt tcttagctc aaggctcag cgtgtgagt gaattcaac cgtttttagt tggcactgt ccttgggcat ggaataagcc tctagtaacc cttctgccac aaacaccca aactctct tgaataat altatataa attctatt cacatgatt cctcattgc atcagccac tctctggag cagactaac tgaataat aagcaagaaa acagggttag gggagtaag taacttcc agtcacacgg clagtgaagca gacggctcgt gactccgag cctcgtctct tctctctt gggacacccat gctgattccc tgccttatg ccacttcca gggcccttgc ttggggccc aagggaacac ttgtgcaga ggaaggagggc cctctgcagc tttagaacag agggcagctct agtttggctc cgtctatc tgggacagggg aaactccag cttctctct ggggtggagg cttggggctg ccctccatag cggggtaact cttctctc tctctctc cttccctat gtagccct taccggggc cggcatgcaca tatccctgg catcagggct gtagctcggc cggccccc taccaccaat cttgaaccaac aggaagggtt ggggttgc ttccacac ccctctctg aggttggggc gtagggcagg gctcacaga gggccagagg aagcactaa ttacagcc tcttccatag agcttcagt gggctctgccc agcttggcag acacttgcag acctcttc tcatgacac caatcttga tgccttgcga tgcacact caatactct gctctccac ccacttct cggggccaat gctcgggag gcagttctgt gatttctgt gattctcga tgccttcca altccatgccc ctagggctca tgggttgcct gggctatggg cttgtggggg ccatttggct gttggggaat ttggcgggtc ttttgggtat gtagtaactgt ggggggaggg cccctggccc acctcagac accttct tcaaccttgc tctggggag ctagggacttgc cactcactt ccccttttgg gtagccgaggt cgggacagg ctttctggg ccttggggg gttccctctc caagatgggt ctagggcaga cttgtcccaa cgtctatggc agcacttcc tcatcagc gcttggggtt gctcgtact ggggttctg ctagggctggc gggccagggca cccacttc actcttctgg gcccgaatag ccaaccttgc agtttggggg gctgggttgc tgggttgc gggggcaggg gcttggggg tggaggggtt gttgttgggt gttgttgggt gcttgggt tttccacag aggttacttggc tggggggccta ccagctgcag aggggttgggt tgggttct gtttgggt gtttgggt ccaacagcta ccttctgtc cttggcttcc tgcagggcgg gcaacggggc cggcagggg gtaggggtt gtttgggt gtttgggt gtttgggt gtttgggt gtttgggt gtttgggt ocaacctgt gtttctctc tgggggttgc tgggttgaat tgggttgaat gtttcttca tacttctac acttattgt tccctgtcac tacttctg gcaacagca ataggttgc ccaaccttgc ctttctgt tcttggggc gtagggggg cagggctctgg cagggcactt caggggtatc cgggttggggc tgggttggggc tgggttggggc tgggttggggc </p>	A	Unidentified

617	190742	G Protein- Coupled Receptor H7TBA62	ENSP00000201 359	<p>aaagcagagga agcagagcggg agcagcagga caaccccg agagagccgg ctttaoct gctaccaac ctgagacagag gacacccgg gtagagggcg caagctgaac acactoctt ttctgagac caccaggt agatoccttg agtctgggg agaaagctgg cttctggcca agcctgagag cctcagagga aaaaagctga tcttgatcc ccaactctgg gtagagga tgagagaggg agcagcagag atcagagcag gtagagga agcttaagc ttatttggg gtagaggaag aaagagagat gagaaagac ctctggagga tccacaatt gcttgagct ttatccag ttacactcc agtccagat gtagacaaag gattcgttc tcaatttc cttggcag aatactagg aaacttcc taagggttt aggttaagga atcagaggtc agtggccalc tctctgga ccacccccc accccaag agggatccc ttgctttt cgggtatcaa agcagaaat agcagcttc cctgaccca ccttaacalc tcaagagga ccacagaaac ttgctggc agagagccct agcctgcaaaa gctgagtic cctgaaaggg atgocagggg tgagggatag ctggaattc cagcactgc cagggccgg gtagaaac ctggctgga cggagggg tggtctc ccttaaat aggaattgaa agaatgaa ataatgaa gtagagga tgaggggg agtagggg gagagaa agagaggggg gggtgggg agcagcagc aggtagggcc agaaagag agactocaga aggtgggt agtctccct gcccagag caagcccg agtacaat tgaggtcag agcagcagga ttacagctt taccicagc aaattactt acctttgt acctactgt tctactgt aaatgggt actaaagatt taacagagga atatactgt agctattt ctgtttgt tggttttg ttgagcag agtctgttc tgcggccag gctggaggtc agtgggtgga tctcagcica ctgcaacct cgttcccg gtcaagcga ttctctggc tgaacttcc agtagctgg gactacagc tccagcagc agtctggcc aattttgt aattttat agagacagga ttcaacata ttggccagc tggctcaaa cttctgaat ctatgtat gttccactgc gctcccaaa gtgtggag taaggggtc agccagcga cccgggtcag ctatttct tacaacctgt gtagaggtc gtagagga tggtgggaaa taaggtgga gctggggat gggtgggg aacctgtc cagcgggaat ggtagatag gctctgag gggtatag gaaagctca caaaagac tcaaggggt gggtgggg cctctgga aggtgtgt ctagagcag gggtctt ttgttgtgt attgagag atcaagata aggttgag atcagagga ttctagga ggcagccct agaaaggg agcagag gtagaggg tagagtc</p>	P	Homo sapiens
618	190743	G Protein- Coupled Receptor GPC5D	NM_018654	<p>algtacagg actgacga gttacagga gacttttc ttctgtga cggcaggg ctaggggca tcaatggga gtccctggc alacttgga tgggtgac aatctgca cttagat ttcttct cagcagaa atcagact gtagcaggtg gtagcttc ccaacagc tctcttct ctagaggtc cgggggtc tgggtctc ttggctc atcagagc tcaatcaa aagcggcc gtagctat tcttttg gggtctt gctctgt tctagct cttagctat gcttcaat gtagagct gggtgggt ttgtctct tctcggag gacatctg tgcatgga ttgttcag tctgtgca atcatttg ccactgga tgtagctc atcagaca gtagtagat gttgtgaat agacacat gtagcagca ttgtgact ttgtctat cctctctg atggccca cttctgt ctaaaagc acctcttg ggggtgga gtagagga gtagagga ggctcatct tctacagtg cttctcca tcaatcag gggtgggt atctcagc tctgaggg caacccag ttacagcag agccaggt gtagaggg gttctgca ttgtctgt cacaagga tggttttc ttgtctgta ctagctct gagctgca ttctacag atcgtgga cagaggttc cttacaggg caagctgc cccgtcag cttacaca cagcttcaa gtagagga acc aggtctc cagagggga gtagagga gtagagga ttacttcat atgggtctc cttacaggg cagaggttg atccacaca aggtgttc atccacag ctaaaag cccacagca</p>	A	Homo sapiens

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatcaggag gagtataa MYKDCIESTG DYFLCLDAEG PWGIILESIA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLLFLSV LGLFGLAF AF IELNQQTAP VRYFLFGVL ALCFSCLLAH ASNLVKLV RG CVFSFWTTL CIAIGCSLLQ IIAITEYVTL IMTRGMMFVN MTPCQLNVDF VLLVYVFLF MALTFFVSKA TFCGPCENWK QHGRLLFITV LFSIIIWVWV ISMLLRGNPQ FQRPQWDDP VVCIALVTNA WVFLLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPQQ DAGGV cggggcaggig ggggaacctoc cigaagagig ccttggtcac agcaccttg aagacagcca tiggccatgg ggaaccaacc agagcctggc ciggagacca ggaaggccat ccaaaagcc ttgtgagt gccitgggact gccitcttc cigtccacg gggcttgggc caggggccat gtccacccg gctgcagcca aggcctcaac cccctgact acaacctgig tgaacctct ggggcggtggg gcalgctct ggaaggccgig gctggggcgg gcatgtgac caggttgg ctaaccatca tctgtgtggc cagcctccc ttgtgcagg acacaagaa acggagcctg ctggggacc accgtatctt cctctgggg accctggggc tctctgct cgtgtgoc tgtgtgga agcccgact ctcacactgt gccctcggc gcttctcti tgggggtcig ttcgcatct gtctcttg tctggggct cagctcttg cctcaacti cctggcccg aagaaccacg gggcccgggg cttgggtgac ttacgtgg cctgctgt gacctgtga gaggicalca tcaatacaga gtggctgac atcacctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcagggtgg gccgtgggct cccctgigc cgtcgccaac atggacttg tcaaggcact catctacgc atgtgtgctg tctgtgggc ctctgggg gctctggccg cctgtgtgg cgcclacag cgtgtggga agcatggggt ctltgtct ctaaccacg ccaactcctg tgcataatgg gtgtgtgtga tegtcatgta lactacgc aacaagcag acaacgtcc caactgggat gaaccacgc tggccatgc cctggccgc aatggcggg cctctgct ctctacgc atcccgagg tctccagg gacaaagtc agccagagc aagctacca ggggggacg taaccaccc ggggggtgg ctatgagacc atctgaaag agcagaagg tcaagagcatg ttgtgtgaga acaaggcct ttcatggat ggcgggttg cagctaaag ggcgtgtga ccaacagag ggtacatgg gcatgtgctg accatgtgt acaagccac tgaatggcag cgtatgcaca aagtctcgc cgaaggagct taccacatca tctccacg ggcacccgc aacagccagg tgaatggcag tgcacactg accctgggg cgaagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actctcagg ctltgaaac cctacgtgt gggactgagt cagcgggtggc gaggagggc ggcgagatt ggggggggccc ctgagagctt gggccggggc aaggagctt caggctct cctcccccig gcaaggccagc aacatgtgc ccagatcgg aaggccctc ctctgcca gtgtgggt ggggtgtcag ggtgtccca cccactcic agtgtgtg ggtcgaaga gcaacccca gccctctgccc aggatcact cggcggtcac actccagcca aatgtgtc tcgggtgtt ggcggggcag cgcctatgt tctgtgaga ttctgcaac ctcaagagac ttccagggc ctaggccig gtctgtc ctgtgagg acaagggtg cctaataat acattctg ttaataa aaaaaaaa aaaa MGTPPEPGLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YNNLCDSGA WGIVLEAVAG AGIVTFTVLT IILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTL VEV IINTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFGLGAW PALCGRYKRW RKHGTVFLLT TATSVAIWV WIVMYTYGNK QHNSFTWDDP TLAJALAANA WAFVLFYVTP EVSQVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGA IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	ggtctctg tctggggct cagctcttg cctcaacti cctggcccg aagaaccacg gggcccgggg cttgggtgac ttacgtgg cctgctgt gacctgtga gaggicalca tcaatacaga gtggctgac atcacctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcagggtgg gccgtgggct cccctgigc cgtcgccaac atggacttg tcaaggcact catctacgc atgtgtgctg tctgtgggc ctctgggg gctctggccg cctgtgtgg cgcclacag cgtgtggga agcatggggt ctltgtct ctaaccacg ccaactcctg tgcataatgg gtgtgtgtga tegtcatgta lactacgc aacaagcag acaacgtcc caactgggat gaaccacgc tggccatgc cctggccgc aatggcggg cctctgct ctctacgc atcccgagg tctccagg gacaaagtc agccagagc aagctacca ggggggacg taaccaccc ggggggtgg ctatgagacc atctgaaag agcagaagg tcaagagcatg ttgtgtgaga acaaggcct ttcatggat ggcgggttg cagctaaag ggcgtgtga ccaacagag ggtacatgg gcatgtgctg accatgtgt acaagccac tgaatggcag cgtatgcaca aagtctcgc cgaaggagct taccacatca tctccacg ggcacccgc aacagccagg tgaatggcag tgcacactg accctgggg cgaagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actctcagg ctltgaaac cctacgtgt gggactgagt cagcgggtggc gaggagggc ggcgagatt ggggggggccc ctgagagctt gggccggggc aaggagctt caggctct cctcccccig gcaaggccagc aacatgtgc ccagatcgg aaggccctc ctctgcca gtgtgggt ggggtgtcag ggtgtccca cccactcic agtgtgtg ggtcgaaga gcaacccca gccctctgccc aggatcact cggcggtcac actccagcca aatgtgtc tcgggtgtt ggcggggcag cgcctatgt tctgtgaga ttctgcaac ctcaagagac ttccagggc ctaggccig gtctgtc ctgtgagg acaagggtg cctaataat acattctg ttaataa aaaaaaaa aaaa MGTPPEPGLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YNNLCDSGA WGIVLEAVAG AGIVTFTVLT IILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTL VEV IINTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFGLGAW PALCGRYKRW RKHGTVFLLT TATSVAIWV WIVMYTYGNK QHNSFTWDDP TLAJALAANA WAFVLFYVTP EVSQVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGA IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	ggtctctg tctggggct cagctcttg cctcaacti cctggcccg aagaaccacg gggcccgggg cttgggtgac ttacgtgg cctgctgt gacctgtga gaggicalca tcaatacaga gtggctgac atcacctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcagggtgg gccgtgggct cccctgigc cgtcgccaac atggacttg tcaaggcact catctacgc atgtgtgctg tctgtgggc ctctgggg gctctggccg cctgtgtgg cgcclacag cgtgtggga agcatggggt ctltgtct ctaaccacg ccaactcctg tgcataatgg gtgtgtgtga tegtcatgta lactacgc aacaagcag acaacgtcc caactgggat gaaccacgc tggccatgc cctggccgc aatggcggg cctctgct ctctacgc atcccgagg tctccagg gacaaagtc agccagagc aagctacca ggggggacg taaccaccc ggggggtgg ctatgagacc atctgaaag agcagaagg tcaagagcatg ttgtgtgaga acaaggcct ttcatggat ggcgggttg cagctaaag ggcgtgtga ccaacagag ggtacatgg gcatgtgctg accatgtgt acaagccac tgaatggcag cgtatgcaca aagtctcgc cgaaggagct taccacatca tctccacg ggcacccgc aacagccagg tgaatggcag tgcacactg accctgggg cgaagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actctcagg ctltgaaac cctacgtgt gggactgagt cagcgggtggc gaggagggc ggcgagatt ggggggggccc ctgagagctt gggccggggc aaggagctt caggctct cctcccccig gcaaggccagc aacatgtgc ccagatcgg aaggccctc ctctgcca gtgtgggt ggggtgtcag ggtgtccca cccactcic agtgtgtg ggtcgaaga gcaacccca gccctctgccc aggatcact cggcggtcac actccagcca aatgtgtc tcgggtgtt ggcggggcag cgcctatgt tctgtgaga ttctgcaac ctcaagagac ttccagggc ctaggccig gtctgtc ctgtgagg acaagggtg cctaataat acattctg ttaataa aaaaaaaa aaaa MGTPPEPGLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YNNLCDSGA WGIVLEAVAG AGIVTFTVLT IILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTL VEV IINTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFGLGAW PALCGRYKRW RKHGTVFLLT TATSVAIWV WIVMYTYGNK QHNSFTWDDP TLAJALAANA WAFVLFYVTP EVSQVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGA IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	P	Homo sapiens

[illegible]

624	190748	GPCR Ls190748	AX147756		A	Homo sapiens
<p>gtctgggggt ggggggatgct ggggacagggg tcaattgct ggaagcaagtg ctctcatccc cctagctcct gtctgaltag tggggctcc agagtgggga gggagaaaggc acttgaagc ttcttgccc ttacggcttt agccatcaaa ctctgagctg gagatagta cgaatggaca ggaactttcc ctggggctct ctggggccaca attctggccc gaggagaaaga ggaaggaaaga gggtgagcac ttctcactc ctaggggccat ggtgtgtagagc tgcagtgcga cctctcttg ccaatagcca tagatgtagtg gggtgagcag ggaagtggccc acgccgagaca gccacagtgta ccgtccagc actagtgtaga ggtgacactc ctggcagggcc accgtgcaaa tgcagtgat aaggaaggggg gtccagggata ggaagaaagt cccaatagga acagacacag tacgggaagc tttgaagtcg ctgggagctcc gttgggagtcg ataactcca gocatggctc ctgcaltgtc calcttcca atctgctggc tgtgcatgga gggcaatctg agcatgtccg agtaagaaaga gacaaagagc agcatggctc gttgtaggga acatggggat agggttcagca cgaagtggagg gtgaalaca gcaagaaagc tgcacggccc ttgttagggga gtctgctggga acatggggat tccgagtggg aggaagocaa tgaagtaga cactaacac agccggcga tgcaggccc gggccaggaac ccactalga tctcaagta ggggaaggggc tgcgtgtagc caaggtacct gtcnaagtg atcagcalga ccgtgagagc agagggcagct ggggagggag tgaacaaagc calccgcagg ctgcacaggg tctctgtgt gggccggagaa gggctgggga gctgtgtgt gagtaggcca gagttagcca cacaatcaa ggtgtcagcc acagccagat tcaagtgtaga gcagagagac acaccatcat tctgtggat caacagcagc acagccacag ccactaggt gtagtagga atgtagggg agggccagagc agcaagggatc actcaaatg agaaagta ttcatgtct cgaagtgga ggaactcat tccagggca tg MESSFSGVI LAVLASLIA TNLVAVAVL LLHKNDGVS LCFTLNLA DTLIGVAISG LLTDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMILT FDRLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQOTA YKGQCSFFAV FHPHFVLTLS CVGFPPAMLL FVFYCDMLK IASMSQQIR KMEHAGAMAG GYRSPRTPSD FKALRTSVL IGSFALS WTP FLITGVQVA CQECHLYLV ERYLWLLGVG NSLLNPLIYA YWQKEVRLQL YHMALGVKKV LTSFLFLSA RNCGERPRE SSCHIVTISS SEFDG</p>						
625	190748	GPCR Ls190748	CAC39548.1		P	Homo sapiens
<p>atggccaact ccagaggct ggaagctcca gaaatgcag gctgtggg gttgatccg gcagctgtc tggaggtggg ggcactgtc ggcacagggc cgtctgtgt ggtgtgtc cgcagcccg gactgtcgga cgtgtctac ctggcgcaac tggtgtc ggaactgtc gggccggcc ccatcagcc gctggggctc ctggcgccac cggccggcc gctggggcc gtggcttg gggccggcc atggcgcc gctgtctcc tctggccg tctgtgtc gctgtgtc gctgtgtc gctgtgtc cgcactgg ctggcagct accgctcat cgtgcacccg ctggcgccag gctgtgtc gctgtgtc gctgtgtc ccggctgt gggccggcg ggaactgtc gggcgctc ccgtgtc cggcgccg cggcgccg cggcgccg cgtgtgtc tctgtgtc gggcgccg ccctcggc cgtgtgtc cgtgtgtc cgtgtgtc cgtgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gactcgtc ggaactgtc gatacggcc ttccatcti gggcgccg cgtgtgtc gctgtgtc gctgtgtc ctggggccag cgtgtgtc gggcgcaatt gcaagctgt ggtgtgtc gctgtgtc gctgtgtc gctgtgtc ggcgcgga ggcgaagc ctgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc agcgccgt ggtgtgtc ctgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc tggcaccg gggcactct gcaatgtc cagagaccc cagagggccc tggcgtagc cctgtgtc ctcagaaca gacccggag ttggcagga gggcgagcc cgcatacag gggcgccct agagtct ctctga MANSTGLNAS EVAGSLJL AAVVEVGALL GNGALLVVVL RTPGLRDAL Y LAHLCVVDLL AAASIMPLGL LAAPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAAALG LARYRLIVHP LRPGSRPPV LVLTAVWAAA GLLGALSLLG PPPAPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGFVVAR</p>						
626	190749	G Protein-Coupled Receptor GPR62	AF317653		A	Homo sapiens
<p>atggccaact ccagaggct ggaagctcca gaaatgcag gctgtggg gttgatccg gcagctgtc tggaggtggg ggcactgtc ggcacagggc cgtctgtgt ggtgtgtc cgcagcccg gactgtcgga cgtgtctac ctggcgcaac tggtgtc ggaactgtc gggccggcc ccatcagcc gctggggctc ctggcgccac cggccggcc gctggggcc gtggcttg gggccggcc atggcgcc gctgtctcc tctggccg tctgtgtc gctgtgtc gctgtgtc cgcactgg ctggcagct accgctcat cgtgcacccg ctggcgccag gctgtgtc gctgtgtc gctgtgtc ccggctgt gggccggcg ggaactgtc gggcgctc ccgtgtc cggcgccg cggcgccg cggcgccg cgtgtgtc tctgtgtc gggcgccg ccctcggc cgtgtgtc cgtgtgtc cgtgtgtc cgtgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gctgtgtc gactcgtc ggaactgtc gatacggcc ttccatcti gggcgccg cgtgtgtc gctgtgtc gctgtgtc ctggggccag cgtgtgtc gggcgcaatt gcaagctgt ggtgtgtc gctgtgtc gctgtgtc gctgtgtc ggcgcgga ggcgaagc ctgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc agcgccgt ggtgtgtc ctgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc ggtgtgtc tggcaccg gggcactct gcaatgtc cagagaccc cagagggccc tggcgtagc cctgtgtc ctcagaaca gacccggag ttggcagga gggcgagcc cgcatacag gggcgccct agagtct ctctga MANSTGLNAS EVAGSLJL AAVVEVGALL GNGALLVVVL RTPGLRDAL Y LAHLCVVDLL AAASIMPLGL LAAPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAAALG LARYRLIVHP LRPGSRPPV LVLTAVWAAA GLLGALSLLG PPPAPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGFVVAR</p>						
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1		P	Homo sapiens

628	190774 Histamine H4 Receptor	NM_021624	A Homo sapiens	<p>RAALRPPRPA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALAVGQF AACWLPYGCA CLAPAAARAAE AEAATVWVAY SAFAAHFPLY GLLQRPVRLA LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPPEGPAVG PSEAPEQTPE LAGGRSPAYQ GPPESSLS</p> <p>ggaagagactac acattttaagg tatggatga gaaacacatc ttgicagaat tgcitggctg gattaatlg claatitgac ctcttcac attitgagtg atgcagatga claatagcac aataattha tcaatgaaga ctctgctgac tttagctatt ttatgctct tagtacttt tgctataalg claggaaalg ctllggctat tttagcttt gggtggagaa aaaaactttag acatgaagt agtatatt ttctaactt ggccatctt gactcttg tgggtggat ctccattct ttgatacc ctacacgtt gttcgaatgg gtttttgtaa agtgaatcig tgtaatttgg ctactactg actatctgt atgtacaga tctgtatata acatttgcct catcagctat gtaicgatacc tgcagctc aaaigtcttg tctataagaa ctcaacatc tgggtgtcttg aagattgta ctctgaagt ggccgttgg gttcgtggct tctatggaa tgggccaalg attctagtt cagaactctg gaagatgaa gttatggat gttgaacctgg atttttgg gaatggtaaa tcttggccat cacatcatic ttggaaatcg tgaatccagt calctagtc gctatllca acatgaaat ttatggagc ctggggaaagc gttatcatct cagttaggtgc caaagccatc ctggagctgac tgcgtgctct tccaacatct gttggacacac attcagagagt agactatct caaaggagatc tcttctgca tgcagagaag ttctgctac ctcttcac tgaagaaga gttgaagaag tagtctcag ttctcaca gaaaccaagat gaatagcaat acatgtctt ocaaaatggg ttctctcc caatcagat ctgtagctct tcaaccaagtg gaacatgttg aacigtctag agccaagga tttagccaagt cacttggccat tctttaggg gtttttgg ttgctggggc tccattct ctgttccaa ttgtctctt atttttcc tcaagcaagc gttctaaac agtttggat agaaatggat ttgggttca gttgttcaat tcttggta atcctcttt gatacatgg tgcacaagc gtttcaaaa gtttcttgg aaaaattt gtaaaaaa gcaacctctt ocatcacaac acagctgggc agtatctt taaagacaat ttctacct ctgaaatt tagtctcaat ctacctaata tgaatcaggt ctggccttta tcttggcct ttacttct caacagatct gcaatttga gttcaatggta aattacttca gttgaataaa tgcagataaat atgacttga aaataatttg taacttga gttcaatag tactatct ttctagctt tcaacttct ctgtctctt agatctaat ttacttga ttacaanaat ccaattttg ttcttctt tggttcagc alaaatcagt ctatagga ttctcttt ttatattat cgttaatggaa acttatccag ttgaanaat attcttcaa gttatgaata gttgaagaagaa cctctggct gggtatctggcc aactctgct tgaatgggtg gttgggtggag ttgggtttga gtttgcaga gttgggtgaagc gttgaatgggt caggttctgca tcaagatttt alattctaa tccagtaag ttgggtttga gtttgggtga gtttgggtga gtttgggtga gtttgggtga aggtctctcag tgaatgttt ttgggtggcc ttgggtgtcag agttatga gtttgggtga gtttgggtga gtttgggtga tgaatggatg gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga aaattttat ttgtgggtg gtttgggtg gtttgggtg gtttgggtg gtttgggtg gtttgggtg gtttgggtg aggttcatggag atcgaagaa tcttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga ctacaggtga ctgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga aaattttt taaaaaaat tttaaaaag gtttttga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga atcacgtgca cctctgctc ctgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga caccatggct gggtatatt gggtatatt gggtatatt gggtatatt gggtatatt gggtatatt gggtatatt gggtatatt aagacaggggt atttgggtg ttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga tgcctgggtg ataggtcaca gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga gtttgggtga taatggcat gtttgggtg atttgggtg gtttgggtg gtttgggtg gtttgggtg gtttgggtg gtttgggtg gtttgggtg</p>
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629	190774	Histamine H4 Receptor	NP_067637.2	MPDTNSTINL SLSTRVTLAF FMSLVAFAIM LGNALVLAF VVDKNLRHRS SYFFLNLAIS DFFVGVISIP LYPHITLFEW DFGKEICVFW LITDYLLCTA SVYNIVLISY DRYLSVSNV SVYRQHTGVL KIVLTMVAWV VLAFLVNGPM ILVSESWKDE GSECEPGFFS EWWYLAITSF LEFVIPVLV AYFNMMIYWS LWKRDHLSRC QSHPGLTAVS SNICGHSFRG RLSSRRSLA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVALHQR EHVELLRARR LAKSLAILG VFAVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL CHKRFQKAFI KIFCIKKQPL PSQHSRSVSS cccagacct gaaciacca gagcaagacc acagctggg aacagctcag gagcagacaa gagagagaca aattccic tcccacgaa catctctgga gggacacctg ctgctcgc tggctatc ttcctggala tcatcacta tctggtatt gcagctacat ttgtctcgg ggtctgggc aacgggcttg tgaictggc cggctggatic cggatggac acacagtcac cacatcag tacctgaacc tggccgggc tgaactcgt ttaactoca ctggccatt ctatcagtc aggaagaca tggagagaca ttggccitc ggctggcttc tggcaaat cgtcttaacc atagtgagaca tcaactgt cggagagtc ttcttgatgc cctcattgc tctggaccgc tgggttgcg tctcgtacc agctcggacc cagaaccacc gcacogtgag cctggccacg aagggatgaica ttgggccc ggatggct ctgctctca cattgcaagt tatcattgt gtagctacag taocgggaa aacggggaca gtagccigca cttaact ttggccctgg accaagacc claaagagag alaaalgig gccgttgcca tggatgcag gagaggaic atocggctca tcaatggct cagcgacc atgtccatg ttgctgcag ttatggct atggacca agatccacaa gcaagggcttg ataaatcca gtcgtccctt aggggtctc tcttgcg cagcagccct ttctctgc tgggtcccat atcaggggtt gggccctata gccacagta gaatccgtga gtaatgcaa ggcagtaaa aagaaatgg taatgcagtg gatgacaa gggcccgcc ctctcaac agctgcctca acccatgct ctatgctc atggggccag acttcggga gagggctgac cagcccttc ccggccatct ggaaggggccc ctgaaccgag actcaacca aaacagtgac acagclacca atctactt accctctga gagggggagt tacaggcaaa gtagagagg agctggggga cacttcgag ctccagctc cagctcgc tcaactgag ttaggctgag cacaggcatt tctgctat ttaggatta cccactcacc agaaaaaaa aaaaaagcct ttgtgtccc gatttgggg agaaaaaca galatgagt t METNSSLPTN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV AGFRMTHVT TISYLNLA DFCSTSLPF FMVRKAMGGH WPFGWFLCKF VFTIVDNLF GSVFLIALIA LDRCVCVLP HP VWTQNHRTVS LAKKVIIGPW VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLTV RGIRFIIGF SAPMSIVAS YGLIATKHK QGLKSSRL RVLSFVAAAF FLCWSPYQV ALIAVRIRE LLOQMYKEIG IAVDVTSLA FNSCLNPM YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDATNSTL PSAEVELQAK alggaaaaa actctccat tctctgaat gaaactgagg aggtgctcc tgaactcgt gggccacacc ttcttgat ctctcatt ctagttaccg gagtcacat tgcctcgg gctcgggca atgggctgt gatctggggt gctgggtacc gagagacag	P	Homo sapiens
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	cccagacct gaaciacca gagcaagacc acagctggg aacagctcag gagcagacaa gagagagaca aattccic tcccacgaa catctctgga gggacacctg ctgctcgc tggctatc ttcctggala tcatcacta tctggtatt gcagctacat ttgtctcgg ggtctgggc aacgggcttg tgaictggc cggctggatic cggatggac acacagtcac cacatcag tacctgaacc tggccgggc tgaactcgt ttaactoca ctggccatt ctatcagtc aggaagaca tggagagaca ttggccitc ggctggcttc tggcaaat cgtcttaacc atagtgagaca tcaactgt cggagagtc ttcttgatgc cctcattgc tctggaccgc tgggttgcg tctcgtacc agctcggacc cagaaccacc gcacogtgag cctggccacg aagggatgaica ttgggccc ggatggct ctgctctca cattgcaagt tatcattgt gtagctacag taocgggaa aacggggaca gtagccigca cttaact ttggccctgg accaagacc claaagagag alaaalgig gccgttgcca tggatgcag gagaggaic atocggctca tcaatggct cagcgacc atgtccatg ttgctgcag ttatggct atggacca agatccacaa gcaagggcttg ataaatcca gtcgtccctt aggggtctc tcttgcg cagcagccct ttctctgc tgggtcccat atcaggggtt gggccctata gccacagta gaatccgtga gtaatgcaa ggcagtaaa aagaaatgg taatgcagtg gatgacaa gggcccgcc ctctcaac agctgcctca acccatgct ctatgctc atggggccag acttcggga gagggctgac cagcccttc ccggccatct ggaaggggccc ctgaaccgag actcaacca aaacagtgac acagclacca atctactt accctctga gagggggagt tacaggcaaa gtagagagg agctggggga cacttcgag ctccagctc cagctcgc tcaactgag ttaggctgag cacaggcatt tctgctat ttaggatta cccactcacc agaaaaaaa aaaaaagcct ttgtgtccc gatttgggg agaaaaaca galatgagt t METNSSLPTN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV AGFRMTHVT TISYLNLA DFCSTSLPF FMVRKAMGGH WPFGWFLCKF VFTIVDNLF GSVFLIALIA LDRCVCVLP HP VWTQNHRTVS LAKKVIIGPW VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLTV RGIRFIIGF SAPMSIVAS YGLIATKHK QGLKSSRL RVLSFVAAAF FLCWSPYQV ALIAVRIRE LLOQMYKEIG IAVDVTSLA FNSCLNPM YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDATNSTL PSAEVELQAK alggaaaaa actctccat tctctgaat gaaactgagg aggtgctcc tgaactcgt gggccacacc ttcttgat ctctcatt ctagttaccg gagtcacat tgcctcgg gctcgggca atgggctgt gatctggggt gctgggtacc gagagacag	A	Homo sapiens
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	cccagacct gaaciacca gagcaagacc acagctggg aacagctcag gagcagacaa gagagagaca aattccic tcccacgaa catctctgga gggacacctg ctgctcgc tggctatc ttcctggala tcatcacta tctggtatt gcagctacat ttgtctcgg ggtctgggc aacgggcttg tgaictggc cggctggatic cggatggac acacagtcac cacatcag tacctgaacc tggccgggc tgaactcgt ttaactoca ctggccatt ctatcagtc aggaagaca tggagagaca ttggccitc ggctggcttc tggcaaat cgtcttaacc atagtgagaca tcaactgt cggagagtc ttcttgatgc cctcattgc tctggaccgc tgggttgcg tctcgtacc agctcggacc cagaaccacc gcacogtgag cctggccacg aagggatgaica ttgggccc ggatggct ctgctctca cattgcaagt tatcattgt gtagctacag taocgggaa aacggggaca gtagccigca cttaact ttggccctgg accaagacc claaagagag alaaalgig gccgttgcca tggatgcag gagaggaic atocggctca tcaatggct cagcgacc atgtccatg ttgctgcag ttatggct atggacca agatccacaa gcaagggcttg ataaatcca gtcgtccctt aggggtctc tcttgcg cagcagccct ttctctgc tgggtcccat atcaggggtt gggccctata gccacagta gaatccgtga gtaatgcaa ggcagtaaa aagaaatgg taatgcagtg gatgacaa gggcccgcc ctctcaac agctgcctca acccatgct ctatgctc atggggccag acttcggga gagggctgac cagcccttc ccggccatct ggaaggggccc ctgaaccgag actcaacca aaacagtgac acagclacca atctactt accctctga gagggggagt tacaggcaaa gtagagagg agctggggga cacttcgag ctccagctc cagctcgc tcaactgag ttaggctgag cacaggcatt tctgctat ttaggatta cccactcacc agaaaaaaa aaaaaagcct ttgtgtccc gatttgggg agaaaaaca galatgagt t METNSSLPTN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV AGFRMTHVT TISYLNLA DFCSTSLPF FMVRKAMGGH WPFGWFLCKF VFTIVDNLF GSVFLIALIA LDRCVCVLP HP VWTQNHRTVS LAKKVIIGPW VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLTV RGIRFIIGF SAPMSIVAS YGLIATKHK QGLKSSRL RVLSFVAAAF FLCWSPYQV ALIAVRIRE LLOQMYKEIG IAVDVTSLA FNSCLNPM YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDATNSTL PSAEVELQAK alggaaaaa actctccat tctctgaat gaaactgagg aggtgctcc tgaactcgt gggccacacc ttcttgat ctctcatt ctagttaccg gagtcacat tgcctcgg gctcgggca atgggctgt gatctggggt gctgggtacc gagagacag	P	Homo sapiens
632	190824	Formyl Peptide Receptor-like 2	NM_002030	cccagacct gaaciacca gagcaagacc acagctggg aacagctcag gagcagacaa gagagagaca aattccic tcccacgaa catctctgga gggacacctg ctgctcgc tggctatc ttcctggala tcatcacta tctggtatt gcagctacat ttgtctcgg ggtctgggc aacgggcttg tgaictggc cggctggatic cggatggac acacagtcac cacatcag tacctgaacc tggccgggc tgaactcgt ttaactoca ctggccatt ctatcagtc aggaagaca tggagagaca ttggccitc ggctggcttc tggcaaat cgtcttaacc atagtgagaca tcaactgt cggagagtc ttcttgatgc cctcattgc tctggaccgc tgggttgcg tctcgtacc agctcggacc cagaaccacc gcacogtgag cctggccacg aagggatgaica ttgggccc ggatggct ctgctctca cattgcaagt tatcattgt gtagctacag taocgggaa aacggggaca gtagccigca cttaact ttggccctgg accaagacc claaagagag alaaalgig gccgttgcca tggatgcag gagaggaic atocggctca tcaatggct cagcgacc atgtccatg ttgctgcag ttatggct atggacca agatccacaa gcaagggcttg ataaatcca gtcgtccctt aggggtctc tcttgcg cagcagccct ttctctgc tgggtcccat atcaggggtt gggccctata gccacagta gaatccgtga gtaatgcaa ggcagtaaa aagaaatgg taatgcagtg gatgacaa gggcccgcc ctctcaac agctgcctca acccatgct ctatgctc atggggccag acttcggga gagggctgac cagcccttc ccggccatct ggaaggggccc ctgaaccgag actcaacca aaacagtgac acagclacca atctactt accctctga gagggggagt tacaggcaaa gtagagagg agctggggga cacttcgag ctccagctc cagctcgc tcaactgag ttaggctgag cacaggcatt tctgctat ttaggatta cccactcacc agaaaaaaa aaaaaagcct ttgtgtccc gatttgggg agaaaaaca galatgagt t METNSSLPTN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV AGFRMTHVT TISYLNLA DFCSTSLPF FMVRKAMGGH WPFGWFLCKF VFTIVDNLF GSVFLIALIA LDRCVCVLP HP VWTQNHRTVS LAKKVIIGPW VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLTV RGIRFIIGF SAPMSIVAS YGLIATKHK QGLKSSRL RVLSFVAAAF FLCWSPYQV ALIAVRIRE LLOQMYKEIG IAVDVTSLA FNSCLNPM YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDATNSTL PSAEVELQAK alggaaaaa actctccat tctctgaat gaaactgagg aggtgctcc tgaactcgt gggccacacc ttcttgat ctctcatt ctagttaccg gagtcacat tgcctcgg gctcgggca atgggctgt gatctggggt gctgggtacc gagagacag	A	Homo sapiens

(FPRL2)

633 190824 Formyl Peptide NP_002021.2 P Homo sapiens
Receptor-like 2 (FPRL2)

cacagicaac aacatcgtt acctgaact ggccttagct gactctctt tcaagtgcat cctaccalc cgaatggctt cagtcgcat
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gggtgtagac gggagctcgg attttacca tagtccctac cttaacaa ttactctt ggaataaat aggtactacg aatggggaca
calactgta ttcaactt gcatctgggg gtagacacgc tgaagagagg tgaacgtt tcatatcat ggcacaaggc ttcttgatcc
tccattcat tatggcttc acggctgcta tgcattcat cacagtcgc tatgggcaa tgcgtgcca aattcacaga aaccacaga
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634 190948 EMR2 Hormone NM_013447 A Homo sapiens
Receptor

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635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaacctcac tgcacatgca gctcgcgctc tgcctcttcc tggccaacct cctctctctc gtaggcaattg atcaaacggg acaaaggcg cgtgctcca tcatgcocgg taacctggcac tatcttacc tggccaacctt caactgggatg ctgctggagg cccttacct ctctcact gcaagggaacc tgaagggtgt caactactca agcalcaaca gattcatgaa gaagctcatg ttccctggg gctacggagt cccagctgtg acagtgggcca ttctggcagc ctccaggcct cactctctt gtaatttag ttctttct ccgtctggg ctcaaacag aaaaaggalt tatatggggc ttcttggagc ctgtctggcg cactctctt gtaatttag ttctttct gggtgacttc tggatttga aaacagact ctctccctc aatagtgag tgcataacct ccgggaacaca aggtatgctgg catttaaacg gacagctcag ctgtcacc tggcctggcac gtaggtgtcgg aggtgggtcc ggctggccggg gtagggcct acctcttacc catcaaac agctggcagg gtagcttcat ctctctggg tactgctcc tcaaggcagca ggctcggggag caatagggaa aatggccaag agggatcagg aaatgaaaaa ctgagcttga gtagcacaca ctctcagca gtgctaaagg tgcacctcc aaocccagca oggttaacta gaaaatctt ctgataaaga tcttccctt tggccgggtgg aaaaatgaaa caatcttga gccatcaga ggggaaagaa aagactttgt tctgtgtgt tcaagaaat caccatgta gcaatagaa ggatgtatg gaaggcgctc tggccatca attccggcag aaocgggaaa tcttccatgc cctgcaatgt gctcatcaa ctctcagcat atggcggcc agctggggcc calacttgg tcaacttga gcaaatatt tatgaagcta tagaagcac agactcttt cacaacctt cctcttaca aagactctc caaatcttaa aatgaagcag gaaaacaaagc ctgaagagac ttctatccg acaacatcg aaaggactag aatgttaca ccagatctg gattcttaa ttittgtt ttgtttgt tgtctttag ttctacgggt ttgattatt agcatgta aaaaatgta ttactcac atagatcaag agagacacagg cctctgctt catggagctt ttgggggaaa atgaagtggc tcttgagct agagttagt cagaagccga aattctaga aatcagggtt ctactgctag gcaatgtag tataaatat ttataaca ctgctctt tcatctcac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGGRVFLVFL AFCVWLTLPG AFTQDSRGCA RWCPQDSSCV NATACRCNPG FSSFEIIT PMETCDINE CATLSKVSCG KFSDCWNTG SYDCVCSG EPVSGAKTFK NESENTQDV DECQNPRLC KSYGTCVNTL GSYTCQCLPG FKLKPEDPKL CTDVNECTSG QNPCHSTHC LNNVGSYQCR CRPGWQPIPG SPNGPNTVC EDVDECSGQ HQCDSTVCF NTVGSYSCR RFGWKPRHGI PNNQDVTCE DMTFTWTPP PGVHSQTLR FFDKVQDLGR DYKPLANN IQSILQALDE LLEAPGDLET LPRLQQHCVA SHLLDGLDVL LRGSLKNLSN GLLNFSYPAG TELSLEVQKQ VDRSVTLRQN QAVMQLDWNQ AQKSGDPGPS VVGLVSIPIGM GKLLAEAPLV LEPEKQMLLH ETHQGLLQDG SPILLSDVIS AFLSNNDTQN LSSPVTFIS HRSVIPRQKV LCVFWEHGQN GCGHWATTGC STIGTRDTST ICRCTHLSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLLAALTELL CKAIONTSTS LHLQLSLCLF LAHLFLVAI DQTHKVLCS IIAGTLHYLY LATFTWMLLE ALYLFTARN LTVVNYSSIN RFMKKLMFPV GYGPAVTVA ISAA SRPHLY GTPSRCWLQP EKGFVWGLG PVCAIFS VNL VLFLVTLWIL KNRLSSLNSE VSTLRNTRML AFKATAQLFI LGCTWCLGIL QVGPAAARVMA YLFTIINSLQ GVFIIFYCL LSQQVREQYG KWSKGIRKLK TESEMH TLSS SAKADTSKPS TVN</p> <p>gcaattctt cacaatccgt ggggicagga agcccttctt gaactctgac ttacttctt gctgcgggtt ctgcccattt ttctatc ctctgacagc tgcagagga tctctgctt ggtcttctc caagcagaac aagtgggggc tctggaaagg ttaaggacc tcagtggcca caattatct ttgcatctt cctgagaagt gagaattgaa agggaaagcag gaaggcccat ggtcagattg aagggaaggac ttittagttt cttttttt ttittgaaat gtagtctcgc tctgcttgc aggtggagat gcaagtggtgc gactcagct cactgagcc tcaacttctt gggttccat gattctctg cctcagctc ccaagttagct gagactacag gcaatgcca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	<p> ctacaccag ctacttttgg tatttttgg agagagcgggg tttaaccalg ttggccaggc tggctcaaa ctgctaaac caagtgatct gctccctca gctcccaaa gctctggggat taccgggatg aaccacaca accctggcagg aatttttgg ttttggatct ttggaggagac ttcaaggaaa gtagagcalt cctggccag gaaacgggga agggggacat ttctgcatlg ctgggttccc ctctggcag gggtggggcag agggcaltc gttctgctc cctcactct gctctcag ctacggctgg caggctcggcc tcaactttgt gttcttaazg tggaaactgaa tggtagctgt gtagagatag gaaagaggga gttccaaatct ccttggccag atcataalc cagacacagc agggtaacca catgggcaag caaaaggtag gttctgggg aagggggaag taattggcat tctgttggat accaaaggga ccatttggat ttggctct accaaaggga atggtagaat gggttgacata aatggtaacca gtocctttaa gtaagggggag gaaagggggg gctgggaagat ggcccttct ccacaccta gatcalag ttgaacttgaag ccaaggacag agtgctctccc ccttggcat ttactgt gtcctctta aatcalalg ttatlaacc caaaccaaga ccaaggacct agtcacagct ccaactlaca cttctatla atctaaac aaggcgaac aaacacaaa agatlaagc atttggacct ccaatctgag ccaatttccc ttcttggct accatactt cttctctat atgalacat tcaacttt gttcaattat ccagctlaga cctggatct gtagggccacac ctagctctt cacctccac accctctt cctctcac tggcttccc tggctcttc tcaatctgag ccaacttcaa ggagttctccc tggcttggg gttggccagg aaaaagact atcccccct ctggtagagg gtaggggtag gggtttcagc ccaacctca gtagagtagc tttccctgt ccttctct gttggtagct ccttggct gatttagcaa acagcaccta gacttggggc caggcccttgg gtaggtgggac agatccaggg ataggctaca ccaacctggc ctggacctgg gattgggcat agtttcaac cagtctctgg caaaggctgt aagttctccc gacggccag aacatacat ctttgcagc acccccctca ctagggttag agtttcatc tcttggctct atcatctgg tgtagtggg gctggctggg gggtctccc gcaacagctt tgggttggg agtatctga aagggtagca gaagcgtctt gtcacggcc ttgtagtct gaaactggcc ctggccggac tggcctgatt gttcacgtct ccttttcc ttacttct ggcccaaggc acctggagtt ttggaggg tgggtggc ctggttcat atgtctggg agtagtagc tagtccaggc tggcccaaggc caggggcag agtctagacc gctcacggc gggtggccgc ccttttgg tcccaaggagct acggcacaag gctgagggccc ggcggggctt ggtagggcalt tgggtttgt cttttctgt ggccacacc gttctggctt accgacagt agtgccctgg aaaaagaa tggagcttgg cttcccgggg taocccagg aaggggccagc ggcccttccat ctacttctg agggctggcac gggtctctt ctggcttcc tgggttggg ggccagctac tgggacalag gggttgggct acaggccggc cgtctccggc ggagccggcc caggggccg ctgggtggg tcaatctt gacttccgc gcttctggc tggccctacca cgttggtaga ctggcttagg cggggccggc gctggccggc caggccggcc gtttagggggc gtttagggggc cggcttggagc tggccggcaa cgttctcalt gcatctggct tcttggagc caggcttgaac ccttggctt accgcttggc cggccggggc cgtcttggct cggccggggc gggttctgic gccaagctgc tggagggggc gggttccgag ggttccagca cggccggggc gggtcagggc ggccagaccg ctaggagggc cccggcgt ctggagggcc gcttccga gtagcttact ggctccagc cttcaagt aaacgaactg aactagggct gggtggaggg ggcggcactt cctctgggca gaaaggtagc tctgagccag ttacgtact ggagggtagg caggggggg gtagggggg agggggggg agggggggg agggggggg gtagggggg gtagggggg gtagggggg tggaggggag tggaggggag gtagggggg gtagggggg gtagggggg gtagggggg gtagggggg cggagggcgg aa </p>	P	Homo sapiens
638	191039	Trace Amine	AF380185	<p> MNTTSSAAPP SLGVEFISLL AIILLSVALA VGLPGNSFVV WSILKRMQKR SVTALMVLNL ALADLAVLLT APFHLFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLLTA MSLDRSLAVA RPFVSQKLRT KAMARRVLG IWVLSFLAT PVLAYRTVVP WKTNMSLCFP RYPSEGHRAF HLFEAVTGF LLPFLAVVAS YSDIGRRLOA RFRRRRTGT RLVVILITF AFWLPYHV V NLAEAGRALA GQAAAGLGV KRLSLARNVL IALAFSSV NPVL YACAG GLLRSAGVGF VAKLLEGTGS EASSTRGGS LGQTARSGPA ALEGPSESL TASSPLKLINE LN atgagccct ttggcccaa tataattat atttcttgg ttgaanaaaa cttggcaaat gatgtccggg cttcccgta cagtttaag </p>	A	Homo

Receptor 1 (TA1)	Trace Amine Receptor 1 (TA1)	639	640
191039	AAK71236.1	<p> gfgtcialaa ttctgaccac actcgtgtggc aatcgtalag ttaltgttc latalacacac ttcaacaac ttalatccoc aacaalatgg ctcaltcatt ccatggccac tggagactt ctctgggggt gtcgggcat gctttacagt atgggtgagat ctgctgagca ctgttggat ttggagaag tctctctgtaa aattcacaca agcacccgaca ttatgtcgag ctacgctcc atttccatt tgccttcat ctccattgac cgtctactaig ctgtgtgtga tccactgaga talaagcca agatgaatat ctgtgtatt tgtgtgtaga tcttcattag ttgaggtgic cctgctgtt ttgcatttgg aatgactt ctggagctlaa acttcaagg cgtctgagaag alatalata aacatgtica ctgcagaaga ggtgtctgt tctcttttag caaatact ggggtactga ctttttag cttttat alacctggat ctattagt atgtgtcat lacagaatat alctatcig taaagaacag gcaagattaa ttatgtatg caatcagaag ctcaaatgg gatttggaaat gaanaatgga atttacaag gcaagaagaag gaagctgtg aagacattgg aatgtgtgat gggagtttic ctalaatgct ggtgtccctt ctattctgt acagtatgg accctttct tcaclacatt attcacctta ctgtgaatga tgtgtgtat tggtttggct acttgaadc lacatttaal ccaatggtt atgcatttt ctatccttgg tttagaagaag cacttgaagat gatctgttt ggtanaattt tccaaaaaga ttcatccagg tgaataatt ttgtgaatt gagtcatag </p>	<p> Homo sapiens </p>
191132	NM_022049	<p> ggggtocaca tcaagcaca ctctgtctc tgaagcagg gttgtctct cttaggtca gttcttgat ttgacgcca gcaatttgc tgcctgtcc tgcctgtcca cccgcttgg cttagagcc gacatttac ttctcagg cctgtataca gctgagaagt ctctctgag ctgtactgc ctgtccagaca ccatgtgtgt ggtatgtctgt tgggtgagaagc ttggcacttgc tcttggcact gatccagct gtagtttctc ttgtgttgc ttgacacatg atgtgtgtg tgaagtagtga ttcttggca tcccttccoc ttgagacaccc gctaaaggatc agctaaagc caatggcagga cagtgtcagg atgtaacctgg ctgctgaagaag ccgacagctag cgaaggtaggt gtgaagagt ttggccaagaatg accaatct cctcacatc cactctctc accaacgttg gctcgtctgt gctgtctgc gaggaagaagg agtctgtgggc gggccggggcc atcccgtgt cactctgta ttggggcttg gccalcgggg gacagcttgg caacggcatg gtcatatc tctgtctgc ctccgagaag ctgcazaoca cagaagcaagc ctcatgttg aacgggtctgc ccgctgaact cagcgtctgc gctctctgga tgcctgcaaga gggcgtgtctc ggggtctctgc ccaocggctc tgcggagggcc cccgcaagact ggggtcgggc tggggggcagc taccgctgc taccgggtgtg gctgtcgggc ctggagctca ctgtgtctct cctctccac tgcctgtgg ccttgaaccc ctactctc atcaacccgg ccgcccggccac ctacacggcg ctgtacaga gggcccaac gggcggggcatg ctgtgtctgt ccttggggct cgtcttgggc ctgtgtctgc tgcctccggc ctgtggcccc ctggccgggc ccgcccacc ggcgaalccac taccgggggc tgcctgggggc ccgcccggctgc ctggcggcaga cagctctgt gctgtcactgc taccgtggca tctgtgtgtc cgtgtgtgtg agtgtcaagc ttgtgtcaagc gctcaactc cactgtgtc accagttgcc cggcttggcc gcccggcccc ccgcttcc cgggtcccaag cagcgtcccg gcccgggttg cggccggccac ccggcgcaag ccaagctctc tggccacga ggcactgtgt tgggttgaac tggccagggc ctctcgtgc cgtgtgtct gctctgtgc gctctctc tggccacga ggcactgtgt tgggttgaac tggccagggc ctctcgtgc cgtgtgtct ggggtgaatga cgtgtcga tggctctgt gctgtgtct gttccggctc tctacacgtg ttggtgaacgag ttgttccggc gctcgtgtgc ctgtgtctc ccgggtgtgc ggcagcgtc ggcctgtctc gttccggc ccaagctgtcc cgtcgtgtcc caggcggcaac tggggccccc cgtccggccggc cagcactgtgt aacttggcc ttgacccggc ttgacccggc tcccggctt cagcagct tggggccact cgtctctct cctcttggc cactccgg catccctgc ctgaacgag acttccgg ctgaagcccg ttggtgtggc gtaaatgtggc ccttggacc cagcgtgggcta ccttgaacaa gggcgtctc ttatgtgtggc </p>	<p> Homo sapiens </p>

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>goccgaaaglc attttagagc gcccacatgat ttttaccctt ttgtctctgt tttagagaga atccaaaggt caaaacacca gtagacttggaa gaaacttggcaa actggcgttt taaataaac ggtaattta ttccacaca gtgtgtttt gaaaagagc ttcaataig taaaacctt tccactttca tgccttata tatgaagcgc ctggagtgvg catgaaccaaa aggaataaac attgaagaag gaaaacaata ttagaagaat atttagaaa gaaacctgtc tttagatgag ctctctac catttatt ttgtatata ccttggggca gtagagccct aggtgtgccc accagataga gttagccatla gtagcccaag ccccttatic ttaaaagggg tttaataaaa gtctttctca aatggagtag aatcttagcc agtgaagaaa aaaaatttt ttgtctctct ttttttgc ccttaagac tgaataatgg cgtttagatgt tatagtgaaa atttccagt ttgataatgt atgtgcaagc ccagcacatgg aatttgaaa acaataaagg tgaattatcia tttaggttac cgtttcacat ttttatagc atgcacact gtgtctacc tcatthga accaatttat ttgcctatg aatgtatg cagctttgaa cacttgttac tgtaatgtgt gctaaagaaga ataatgtctt cgttttctc tttaacattt aaaaatactc aatgcacatg atataattaa acacataaa taccatgact gcalagctaa tatagctgc tatgcatgc tcttagatgc tagaacttat tgggcatgtg gtatactgaa gcgataacocg ttagacaagg alattttact tcttccagc accagaagaa atggccttca attattgaa aagagacaca gtagacacctc tggctacccia gagttcttcc tgccttgacc aattatag agagctocca gttgggact tatctacaa gtagaatcac agtcaagaagc gatcaataat atgtgtggct cagcaagoc agctgtgtc tttaggggt taaacaagcc acaggtaga aagcaacact gtttttatgt agttcatata lattaccag acatttaaca tcaatattgt atatgtgaa gtaggtatata taaactcagt calatatagt gaacagttca aatgggaaag tgttcaaaa calattttt gaggtttgc atattcact ttgtttact aaatttact agaaatattt gaaatggcaaa atgtgtgaa atcaccttat caaattaaaa tgggaagaaa gtaattttaa taatttttaa taatcatatg tcaagatct gactacttac cacatcaaat ctggggccaa acagctcag ttaactgcal aattcaggaa caaaaccagc tgcctttgt gcaagccctgg gcaatttcag ccaggacatt aggaacctt gtgtacatc tgaataatta tgggaagtgg gaaatgttaa ggaatacaaa tatgtcatc accaacaatc agctgtcatt tttaattc atccctttg tgcagcac atttctct tactaacaagt ttcatctgt cacattttcc ttgattcaaa tattaaagt cagaaaaaaa aaaaaaaaaa aaaaaaaa aaaaaa MTNSSSTSTS STTGGSLLLL CEEESWAGR RIPVSLLYSG LAIGGTLANG MVYLVSSFR KLQTSNFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCL VALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQTALLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAAFPGA QHAPGPGGAA HPAQAQLPP ALHPRRAQRR LSGLSVLLLC CVFLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLYTWRN EEFRRSVRSV LPGVGDAAA AVAATAVPAV SQAQLGTRAA GQHW ggctgcaata actactact acttgatata ttcaacctt ccagaatcaa cagttatcag gtaaccaaa agaaatgcaa gocgtcgaca acttaccctc tgcgcctggg aacaccagt tgtgcaccag agactacaaa atcacaccgg tctcttccc actgtcttac actgtctgt ttgttgg actatcaca aatggcctgg cgaagagat ttcttcaa atccggagta aatcaaat tatttttt cttaagaca cagtcattc tgaatctc atgtatcga ctlltccat caaaatctt agttagcca aactgggaac aggaccactg agaaatttg tgttcaagt tactctgc atattttat tcacaatgia tatcagttt tcatcttgg gacttgataac tatcgatgc taccagaaga ccaccaggcc atttaaaaa tccacoccca aaaaatctt gggggctaaag atctctctg ttgtcattc ggcattcag ttctactct ctgtccaa calgtatc accaaccagg agcccgagaga caagaatgtg aagaatgtc ctctcttaa atcagaatc ggttagtct ggcagtaaat agtaaatat atctgtcaag tcaatttc gataattc taaatgtta ttgtatgta tacactcatt acaaaagaaac tgaaccgtc atagtaaga acgaggggtg taggttaagt cccagggaaa aaggtgaacg tcaagtttt catlactt gctgtatct ttattgttt ttgtctttc cattttccc gaaatcttca cactctgagc caaacocggg atgtcttga ctgcactgt gaaatctac ttgtatgt gaaagagagc actgtgtgt taactctt aatgtcagc ctgtgtccgt tcatctatt ttctctgc aagttcttca gaaatctt gataatgtg ctgaatgtgc ccaattctgc aacatctcgc tccagggaca</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>goccgaaaglc attttagagc gcccacatgat ttttaccctt ttgtctctgt tttagagaga atccaaaggt caaaacacca gtagacttggaa gaaacttggcaa actggcgttt taaataaac ggtaattta ttccacaca gtgtgtttt gaaaagagc ttcaataig taaaacctt tccactttca tgccttata tatgaagcgc ctggagtgvg catgaaccaaa aggaataaac attgaagaag gaaaacaata ttagaagaat atttagaaa gaaacctgtc tttagatgag ctctctac catttatt ttgtatata ccttggggca gtagagccct aggtgtgccc accagataga gttagccatla gtagcccaag ccccttatic ttaaaagggg tttaataaaa gtctttctca aatggagtag aatcttagcc agtgaagaaa aaaaatttt ttgtctctct ttttttgc ccttaagac tgaataatgg cgtttagatgt tatagtgaaa atttccagt ttgataatgt atgtgcaagc ccagcacatgg aatttgaaa acaataaagg tgaattatcia tttaggttac cgtttcacat ttttatagc atgcacact gtgtctacc tcatthga accaatttat ttgcctatg aatgtatg cagctttgaa cacttgttac tgtaatgtgt gctaaagaaga ataatgtctt cgttttctc tttaacattt aaaaatactc aatgcacatg atataattaa acacataaa taccatgact gcalagctaa tatagctgc tatgcatgc tcttagatgc tagaacttat tgggcatgtg gtatactgaa gcgataacocg ttagacaagg alattttact tcttccagc accagaagaa atggccttca attattgaa aagagacaca gtagacacctc tggctacccia gagttcttcc tgccttgacc aattatag agagctocca gttgggact tatctacaa gtagaatcac agtcaagaagc gatcaataat atgtgtggct cagcaagoc agctgtgtc tttaggggt taaacaagcc acaggtaga aagcaacact gtttttatgt agttcatata lattaccag acatttaaca tcaatattgt atatgtgaa gtaggtatata taaactcagt calatatagt gaacagttca aatgggaaag tgttcaaaa calattttt gaggtttgc atattcact ttgtttact aaatttact agaaatattt gaaatggcaaa atgtgtgaa atcaccttat caaattaaaa tgggaagaaa gtaattttaa taatttttaa taatcatatg tcaagatct gactacttac cacatcaaat ctggggccaa acagctcag ttaactgcal aattcaggaa caaaaccagc tgcctttgt gcaagccctgg gcaatttcag ccaggacatt aggaacctt gtgtacatc tgaataatta tgggaagtgg gaaatgttaa ggaatacaaa tatgtcatc accaacaatc agctgtcatt tttaattc atccctttg tgcagcac atttctct tactaacaagt ttcatctgt cacattttcc ttgattcaaa tattaaagt cagaaaaaaa aaaaaaaaaa aaaaaaaa aaaaaa MTNSSSTSTS STTGGSLLLL CEEESWAGR RIPVSLLYSG LAIGGTLANG MVYLVSSFR KLQTSNFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCL VALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQTALLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAAFPGA QHAPGPGGAA HPAQAQLPP ALHPRRAQRR LSGLSVLLLC CVFLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLYTWRN EEFRRSVRSV LPGVGDAAA AVAATAVPAV SQAQLGTRAA GQHW ggctgcaata actactact acttgatata ttcaacctt ccagaatcaa cagttatcag gtaaccaaa agaaatgcaa gocgtcgaca acttaccctc tgcgcctggg aacaccagt tgtgcaccag agactacaaa atcacaccgg tctcttccc actgtcttac actgtctgt ttgttgg actatcaca aatggcctgg cgaagagat ttcttcaa atccggagta aatcaaat tatttttt cttaagaca cagtcattc tgaatctc atgtatcga ctlltccat caaaatctt agttagcca aactgggaac aggaccactg agaaatttg tgttcaagt tactctgc atattttat tcacaatgia tatcagttt tcatcttgg gacttgataac tatcgatgc taccagaaga ccaccaggcc atttaaaaa tccacoccca aaaaatctt gggggctaaag atctctctg ttgtcattc ggcattcag ttctactct ctgtccaa calgtatc accaaccagg agcccgagaga caagaatgtg aagaatgtc ctctcttaa atcagaatc ggttagtct ggcagtaaat agtaaatat atctgtcaag tcaatttc gataattc taaatgtta ttgtatgta tacactcatt acaaaagaaac tgaaccgtc atagtaaga acgaggggtg taggttaagt cccagggaaa aaggtgaacg tcaagtttt catlactt gctgtatct ttattgttt ttgtctttc cattttccc gaaatcttca cactctgagc caaacocggg atgtcttga ctgcactgt gaaatctac ttgtatgt gaaagagagc actgtgtgt taactctt aatgtcagc ctgtgtccgt tcatctatt ttctctgc aagttcttca gaaatctt gataatgtg ctgaatgtgc ccaattctgc aacatctcgc tccagggaca</p>	A	Homo sapiens

643	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	<p>ataggaaaa agaacaggat gggtggacc caaatgaaga gactocaaig taaacaait aactaaggaa atattcaat ctcttggg tcaagaactg ttaagcaaa ggciaaagta aaaaataaa ctagaagaaga agcaactaag ttaataaaa tgaactiaa gaaacagaag atacaagaag caatttcat ttactttcc agtaagaana gctactiaa aataagaana actaatiaa actgtagcig tattagcagc aaaaacaacg ac</p> <p>MQAVDNL TSA PGNTSLCTRD YKIQVLFP LLYTVLFFVGL ITNGLAMRIF P Homo sapiens</p> <p>FQRSKSNI IFKNTVISD LLMILTFPF ILSDAKLGTG PLRTFVCOVT SVIFYFTMYI</p> <p>SISFLGLTI DRYQKTRPF KTSNPKNLLG AKILSVIWA FMFLSLPNM ILTNRQPRDK</p> <p>NVKKCSFLKS EFGLVWHEIV NYICQVFWI NFLIVVCYT LITKELYRSY</p> <p>VRTRGVGKVP RKKVNVKVI IIAVFICFV PFHFARIPYT LSQTRDVFDC</p> <p>TAENTLFYVK ESTLWLTSLN ACLDPFTYFF LCKSFRNSLI SMLKCPNSAT</p> <p>SLSQDNRRKKE QDGGDPNEET PM</p>
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atgggaata attictoca agctgaaggt gtagagcigt gtiacaagaa cgtgaacgaa tccigcatia aaactccita A Homo sapiens</p> <p>ctcgccaggt ccctgactia tccitacgc cgtcttgggt ttggggcig tctggcagc gtttggaaac ttactggica tgaatgctat</p> <p>ccitcactc aaacaactgc acacactac aaacttctg attgcgcgc tggccgicg tgaacttctg gtaggagica ctagatgcc</p> <p>cttcagaca gtaggctcig tggagagcig ttgtactt tggagacagt actgaatgt ccatacctat ttgacacat cctctgtt</p> <p>tgtcttta ttcatatt gctgactc tgtgatala taccatcig ttactatcc tctgacat ccaaccaagt ttacttgic</p> <p>agttcagggt atagcatg ttcttccig gttcttct gtcacalaca gctttcagt ctttiacagc gtaggccaagc aagaaggaa</p> <p>tgaggaatia gtagtgcic taacctgtgt agagagcgc caggtccac tgaataaaa ctaggtccta cttgtttc ttacttct</p> <p>lataccaat gtcgccatgg tgttatala cagtaagata ttitgggg ccaagcalca gtagggaag atagaagta</p> <p>cagccagcca agtccagc tccitcagaa gtiacaagaa aagaagtagca aaaaagagaga gaaaggcgc caaaacttg</p> <p>ggaatgcta tggcagcatt tctgtctct tggctaccat acctgtga tgcagtgat gatgttata tgaatttat aaactccct</p> <p>taigttaag agatthagt ttgggtgt tattaat cagtaagaa cccctgatt tatcttct ttaccaatg gtttgggaag</p> <p>gcaataaac ttatgaag cggcagcgc ttaaggctc atcgtcaac aaataatta ttctgaag aagtagagac agataa</p> <p>MVNNFSQA EA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGAVLA AFGN P Homo sapiens</p> <p>LLVMIAILHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF</p> <p>GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PKFTVSUSG ICIVLSWFFS</p> <p>VTYSFSIFYT GANEEGIEL VVALTCVGGC QAPLNQNWVL LCFLLFFPN</p> <p>VAMVFYSKI FLVAKHQARK IESTASQAS SSESYKERRVA KRERKA AKTL</p> <p>GIAMAAFLVS WLPYLVDAVI DAYMNFITPP YVYEILVWCV YVNSAMNPLI</p> <p>YAFFYQWFGK AIKLIVSGKV LRTDSSTNL FSEEVETD</p>
645	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>atgaatgagc cactagacta tttagcaaat gctctgatt tcccgatta tgcagcigt ttggaaat gactgaiga aaacalcca A Homo sapiens</p> <p>ctcaagatgc actactcc tgttattat ggcattatc tctctggg attccaggc aatgcagtag tgaataccac ttactttc</p> <p>aaaatgagac ctggagaag cagcacaccatc attatctga acctggctc cacaagatc ctagatciga ccagccctcc</p> <p>cttctgatt cactactag ccagggcga aaactggatc ttggagatt tcatgtaa gttatccg ttaactcc atttaacct</p> <p>gtagagcagc atctcttcc tcaactgtt cagcalctc cgtactcig tgaatca ccaatagc tctttcca ttcaaaaac</p> <p>tcatgagca gtttagcct gtagctgtgt gtagatcatt tcatgtag ctagctcc tgaacatc ttgacatc caaccaacag</p> <p>gaccaacaga ttagctcgtc ttagctcagc cagctcagat gaacataa ctataagtg gtacaacatg attttagc caactatt</p> <p>ctgctccccc ttggtagag tgaactttag ctataccagc attatccaca ctagtccca tggactgcaa actgacagct gcttaagca</p> <p>gaaagcacaga aggtcaacca ttctgact ccttgacatt tagatagt tttaacct ccatatctg aggtgacalc gtagcgaac</p> <p>tgcctgctt tcaatcaggt gttccatga gaatcagatc caatgagct acatgctt tagaccata gctgctciga acaccttgg</p>

647	191196	G Protein-Coupled Receptor GPR80	CAC51133.1		<p>taacctgtta ctatattgg tggcagcga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga accctgagca agcaagaata atagtact caaacaacc ttag</p> <p>MNEPLDYLAN ASDFDYAAA FGNCTDENP LKMHYLPVY GIIFLVGFPG NAVISTYIF KMRPWKSSSTI IMNLACTDL LYLTSPLFI HYYASGENWI FGDFMCKFIR FSFHNLYSS ILFLTCSIF RYCVIHPS CFSHKTRCA VVACAVVWII SLVAVIPMTF LITSTNRTNR SACLDLTSSD ELNCTKWYNL ILTATTFCLP LVIVTLCYTT IHHTLTHGLQ TDSLCKQKAR RLITILLAF YVCFLPFHIL RVRIESRL SISCSENQI HEAYVSGPL AALNFTGNLL LYVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc taalaatat actaatc ttaagctc tgaattc tctglaaaa caggggcggg aataccaca taacaggcig gtcatgaaa tcagtgaaca tgcagcaggt gctcaagct tgttttgt tccaggggca ccagtgagg ttitcagc algatocaa ccaccgggc cgggggaa caagtgaaca cagtgaatgg aatgacca gccctctc tctttggc caaggaacc ctgaccgg tctctgat cctllcatt gccctggc ggctggtagg aaacgggtt gtcctcggc tccctggct ccgcalgcgc aggaaagcct tctctgcta cgtctcag cttggccgggg ccgactcct cttctcgc ttccagatta taattggcct ggctaccc agtaactct tctgtccat cttccatcat ttccctagct tctccacc tggatgaac tggcttacc ttgcagggcct gagcagctg agcacccgca gcacagagcg cttccgtcc cttctggc ccacttggga tgcctggcgc cgtcccgagc accgtgcagc ggctgtgt gttctgctt ggccctcgt cctactgct agcatctgg aaggggaagt cgtggctc ttatttggc atgtgactc tggttgggt cagacattg attcacc tgcagcgtgg ctgatttt tattcgtt tctgtggg tccagctgg cctgtctgtt caggatcct tgggttoca gggtctggcc actgaaccgg ctgactcga ccatctgct caccgtcgt gttctcc tctggcctt gccctggc altcaggt tctaatat atggatcgg aaggaatcgt atgtctat ttgtcatt catcagttt cagttgtct gtcactct aacagcagc ccaaccat calltact tctgtggcct ctttggga gcagtgccgg ctcagcagc cgatcctcaa gctggctc cagaggcct tgcaggacat tgcagggg gatacagc aaggatgct ccgcaaggc accgggga tggggaag cagctggg tagatgga cagctcacc ttccatcaga tatatggc ttgagggc aacctggcc cgtctgct gatttga acttccag tctgattt aaaaagta agagatcct tggaggtt aagtgaaca MDPTTAWGT ESTTVNGNDQ ALLLLCGKET LIPVFLILFI ALVGLVGNF VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQIINCLVYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFDGDSGWC QTDFITAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTRLYLTILLTVL VLLCGLPFG IQWFLILWIW KDSDVLFCHI HPVSVLSSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCRQG TPMSRSSLV</p>	P	Homo sapiens
648	191218	MrgX2 G Protein-Coupled Receptor	AY042214		<p>tcataact gcaacttt ttgaggca agtttagat acactgtgg catttccct gcaatgtgt gcaaatgct gtcctgaag alcitgtt tctggcagg ttgcagact gccatagag cttgggattgg tcatgtgac atgtccgctc atggagcca gtagagcagg actcaggga atgtcgtcta cactatggga agataacgt tagatcact tgaagaaggc agactgtgt ttaactct gcttacaat aataacalag catttggga tgaatgca atacaggat ccalgttag atataat gcaataat tccacagctg gtaataat gccaaatg gtagcataga tagggagaa tgtgatccaa gctatgaagt aatgagcat gccaaatgta atgaattgg ctcattgta attcatal tgccttga aagcaaat gtagcaatg aaggccaagg tggcaatgta gccagcagc gtggcaatg caagtatga tccctcca cactcagga tgaatcct gggaaggag acatcact ctacagtag tctggcaag attagcaga gttggcaat gacaacctgg atggcgtgg aagtgaagt aataagatc gttctataga ggcacttcag aaatttgt aatttgggt caaagctgaa ggctagcaaa atttccagaa acttcagaa aatgcaaggag algcaaaag taaagctcac tcaaacatt gctcgtcgg tttaactgt gtagtctgtt gggtctccaa tgaanaagct cgtgtcggca</p>	A	Homo sapiens
649	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1		<p>VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQIINCLVYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFDGDSGWC QTDFITAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTRLYLTILLTVL VLLCGLPFG IQWFLILWIW KDSDVLFCHI HPVSVLSSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCRQG TPMSRSSLV</p>	P	Homo sapiens
650	191222	G Protein-Coupled Receptor Ls191222	LG94359		<p>tcataact gcaacttt ttgaggca agtttagat acactgtgg catttccct gcaatgtgt gcaaatgct gtcctgaag alcitgtt tctggcagg ttgcagact gccatagag cttgggattgg tcatgtgac atgtccgctc atggagcca gtagagcagg actcaggga atgtcgtcta cactatggga agataacgt tagatcact tgaagaaggc agactgtgt ttaactct gcttacaat aataacalag catttggga tgaatgca atacaggat ccalgttag atataat gcaataat tccacagctg gtaataat gccaaatg gtagcataga tagggagaa tgtgatccaa gctatgaagt aatgagcat gccaaatgta atgaattgg ctcattgta attcatal tgccttga aagcaaat gtagcaatg aaggccaagg tggcaatgta gccagcagc gtggcaatg caagtatga tccctcca cactcagga tgaatcct gggaaggag acatcact ctacagtag tctggcaag attagcaga gttggcaat gacaacctgg atggcgtgg aagtgaagt aataagatc gttctataga ggcacttcag aaatttgt aatttgggt caaagctgaa ggctagcaaa atttccagaa acttcagaa aatgcaaggag algcaaaag taaagctcac tcaaacatt gctcgtcgg tttaactgt gtagtctgtt gggtctccaa tgaanaagct cgtgtcggca</p>	A	Homo sapiens

Homo sapiens

P

aaattgagga aatgacagag aaggatcacat tagcagagc ttaatccccc ggaatpattc acaacaggag tgitcaggtt
tcttgaat ataatgcaaa caacacagaac aatatgatt occagtaggg agagaatcac ggaataggag gccaaggagt
cattocaggt ggaatattcc acttcttt caaagcacat agtgcctca acaggaggccc agtgaattt gttgtgcat aaaaaggcagt
gaggcalac t
QTLAMHSIE MINNSTLLPG VKLGYEYDVT CTEVTVAMAA TLRFLSKFNC
SRETVFKCD YSSYMPRVKA VIGSYSEIT MAVSRMLNLQ LMPQVGYEST
AEILSDKIRF PSFLRTPSD FHQKAMAH LQKSGWNWIG IITDDDDYGR LALNTFIQA
EANNVCIAFK EVLP AFLSDN TIEVRINRTL KKILEAQVN VVVFRLRFQF VFDLNFKAIE
MNINKMWIAS DNWSTATKIT TIPNVKKIGK VVGFAFRNRGN ISSHFLQN
LHLLPSDSHK LLHEYAMHLS ACAYVKDIDL RLHISQLAV FALGYAIRDL
CQARDQNP N AFQPWELLGV LKNVTFIDGW NSFHDAHGD LNTGYDVVLW
KEINGHMTVT KMAEYDLQND VFIIPDQETK NEFRNLKQIQ SKCSKECSPG
QMKTTRSQH ICCYEQNCNP ENHYTNQIDM PHCLLNKNT HWAPVRSTMC
FEKEVEYLNW NDSLAILLI LSLGHIFVL VVGIFTRNL NTPVVKSSGG LRVCYVILLC
HFLNFASTSF FIGEPQDFTC KTRQTMFGVS FTLISCILT KSLKILLAFS FDPKLQKFLK
CLYRPILJIF TCTGIQVVIC TLWLIFAAPT VEVNVS LPRV ILECEEGSI LAFGTM LGYI
AILAFICFIF AFKGYENYN EAKFITFGML IYFIAWITFI PIYATTFGKY VPAVEIIVL
ISNYGILYCT FIPKCYVIC KQEINTKSAF LKMIYSSSH SVSSI
tttttgagc taggaagaagt ggttgagc cggcacagta gaggcttcc agggctggct ggcggggat accgtacca
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cattccctt ggaagacgt aacgacatta algaatgac accacccat agtgaattt gggatttaa cgtgtgtgt tacaatgctg
aagggaagtt clactgca lgtgtccag gatatagact gcatctggg aatgaacat tcaatgaaac caatgagaac
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tcaactggg ctagacatg tgtctgggt tctataggtt ggggtccaggt gggcctact tgcacact

651 191222 G Protein-Coupled Receptor Ls191222 ENSP00000199 719

652 193511 EGF-Like Module-Containing Mucin-Like Receptor EMR3 NM_032571

Homo sapiens

A

653	193511	EGF-Like Module- Containing Mucin-Like Receptor EMR3	NP_115960.1	<p>atcaacagcc tcaagggctt ctatctctc ttggcttact gcctctcag ccagcaggc cagaacaat atcaaaagtg gtttagagag atcgtaaat caaatctga gctgagaca tacacatt ccagcaagat gggtctctgac tcaaaacca gtgaggggga tgtttcca ggacaagta agagaataa ttaaaactag aataactac tcaatagg aatactatc catgatctc tttggcatia tgaagaatga agctaaaggaa aaggggaatc ataaacata tcatcttgg agagggaatga atcaacctt acttcccaag ctgtttgtc tccacaatag gcttcaaca aatgtgtgt aatgtcatt tctctcaaa aaaaaa</p> <p>MQGPLLPLGL CFLLSLFGAV TQKTKTSCAK CPPNASCVNN THCTCNHGYT P SGSGQLFTF PLETCNDINE CTPYSVYCG FNAVYNVVEG SFYQCQVPGY RLHSGNEQFS NSNENTCQDT TSSKTTEGRK ELQKIVDKFE SLLTNQTLWR TEGROEISST ATTILRDVES KVLETALKDP EQKVLKIQND SVAIEQAJT DNCSEERKTF NLNVQMNSMD IRCSDIQGD TQGPSAIAFI SYSSLGNIIN ATFFEEMDKK DQVYLNQV VV SAAIGPKRNV SLKSVTLTF QHVKMTPTSK KVFCVYWKST GQGSQWSRDG CFLIHVNKSH TMCNCSHLSS FAVLMALTSQ EEDPVLTVIT YVGLSVSLIC LLLAALTFLL CKAIQNTSTS LHLQLSLCLF LAHLLFLVGI DRTEPKVLCS ILAGALHYLY LAAFTWMLLE GVHLFTARN LTVVNYSSIN RLMKWMFPV GYGVPATVA ISAAASWPHLY GTADRCWLHL DQGFMSWFLG PVCAIFSANL VLFILVFWL KRKLSSLNSE VSTIQNTRML AFKATAQLFI LGCTWCLGLL QVGPAQAQVMA YLFTINSLO GFIFLVYCL LSQQVQKQYQ KWFREIVKSK SESETYTLSS KMGDPDSKPSE GDVFPQQVKR KY KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSCILD WWLAQASVGG P QVFILNILFF CLLLPTAVIV FSYVKIAKV KSSKEVAHF DSRHSSHVL EMKLTKVAML ICAGFLIAWI PYAVSVVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNIPIY QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgagcc ggagagccatg ttgagccatg ttgagagcgc agcagcgcgc ggatgctgt ggagggggcg gaaaaagcca ggcccgccagc ccggagggggc tccggccgcgc gaggtagatgg tccagaggg gcggcgggggc tgcggaagaa caggcgaggg ggccggcgggc ggccggcgggc gcaaggggcc ggagggggggc ccggagcggc ggcccgcc aaggccgga ccggggcggg ggccggggga ggccggcgga ggagggggggc gtagatggc agggcgccgc cgtggcgggg ccggggggaa cggcgagacc ccatactct gctctctc ctccttct tccctctcag ccaggagggag cggggggggc ggccggacca ggccggggat ccaggcgtag cggccatc ggggggccagg gcgcatacgg gggcgggagc cttagctct tggccggagt ctccgggggt ccggggggat ggggggcccg gcctgggggt caggggagccat alcttctgg ggctccgaggg gaggagcca agcgcccgga atagtcgagg ggccctggag cagccggaatg agggagcggg gattgaacac ggcgccagc catggggcag ccgggaacga gaggacaggac aggggaacagg gctctgttta tactggcgcc caggagctc ctctggggc cgggacagg cttggcaag aggtagctc tcaacgggg ctcgtctc agggggccgc ggctcgggga acagctcgcc cctcttca gacttttga ttggcgacca cgggtccca cgggtctct cccagcgga cgtcgggaca ggctccgca aataggggg caccggcg tctgtgggg aatagggg aacagggagc aagggtcagg gcaagagagc cagacatcc gaggcaaaa ggaagagccc ccggcgggag tcttccag ggccctcggg atctggcccc gaggctggalt caggacacg caggcgagg acagctctc catcaggtc agcaaccgc gaggctcgga cagctccga gcccggcc aaggcgatgc gctccgggg tcttccgc tgcggctcc tccggcggc ccggggcg cgtccccgg gactccggc ccgtccgaa gccaaggaaa taacctggc gaacctggc cggcttctgc ggccggcaaa ccggccccc gaggttccgc agtiacaata ccagggagcgg gttccgggaa ataggcgagc agggccagc gttgtctcag tgggtctca ggaacggac ggccggcgagg ccggggcgcc agtctactc gttggggcac tcatgaacag ccgctcgctc gaggctgtca gcatcgagcc</p>	Homo sapiens
654	193516	G Protein- Coupled Receptor dJ402H5.1	CAC21687.1	<p>KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSCILD WWLAQASVGG P QVFILNILFF CLLLPTAVIV FSYVKIAKV KSSKEVAHF DSRHSSHVL EMKLTKVAML ICAGFLIAWI PYAVSVVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNIPIY QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgagcc ggagagccatg ttgagccatg ttgagagcgc agcagcgcgc ggatgctgt ggagggggcg gaaaaagcca ggcccgccagc ccggagggggc tccggccgcgc gaggtagatgg tccagaggg gcggcgggggc tgcggaagaa caggcgaggg ggccggcgggc ggccggcgggc gcaaggggcc ggagggggggc ccggagcggc ggcccgcc aaggccgga ccggggcggg ggccggggga ggccggcgga ggagggggggc gtagatggc agggcgccgc cgtggcgggg ccggggggaa cggcgagacc ccatactct gctctctc ctccttct tccctctcag ccaggagggag cggggggggc ggccggacca ggccggggat ccaggcgtag cggccatc ggggggccagg gcgcatacgg gggcgggagc cttagctct tggccggagt ctccgggggt ccggggggat ggggggcccg gcctgggggt caggggagccat alcttctgg ggctccgaggg gaggagcca agcgcccgga atagtcgagg ggccctggag cagccggaatg agggagcggg gattgaacac ggcgccagc catggggcag ccgggaacga gaggacaggac aggggaacagg gctctgttta tactggcgcc caggagctc ctctggggc cgggacagg cttggcaag aggtagctc tcaacgggg ctcgtctc agggggccgc ggctcgggga acagctcgcc cctcttca gacttttga ttggcgacca cgggtccca cgggtctct cccagcgga cgtcgggaca ggctccgca aataggggg caccggcg tctgtgggg aatagggg aacagggagc aagggtcagg gcaagagagc cagacatcc gaggcaaaa ggaagagccc ccggcgggag tcttccag ggccctcggg atctggcccc gaggctggalt caggacacg caggcgagg acagctctc catcaggtc agcaaccgc gaggctcgga cagctccga gcccggcc aaggcgatgc gctccgggg tcttccgc tgcggctcc tccggcggc ccggggcg cgtccccgg gactccggc ccgtccgaa gccaaggaaa taacctggc gaacctggc cggcttctgc ggccggcaaa ccggccccc gaggttccgc agtiacaata ccagggagcgg gttccgggaa ataggcgagc agggccagc gttgtctcag tgggtctca ggaacggac ggccggcgagg ccggggcgcc agtctactc gttggggcac tcatgaacag ccgctcgctc gaggctgtca gcatcgagcc</p>	Homo sapiens
655	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NM_001407	<p>KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSCILD WWLAQASVGG P QVFILNILFF CLLLPTAVIV FSYVKIAKV KSSKEVAHF DSRHSSHVL EMKLTKVAML ICAGFLIAWI PYAVSVVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNIPIY QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgagcc ggagagccatg ttgagccatg ttgagagcgc agcagcgcgc ggatgctgt ggagggggcg gaaaaagcca ggcccgccagc ccggagggggc tccggccgcgc gaggtagatgg tccagaggg gcggcgggggc tgcggaagaa caggcgaggg ggccggcgggc ggccggcgggc gcaaggggcc ggagggggggc ccggagcggc ggcccgcc aaggccgga ccggggcggg ggccggggga ggccggcgga ggagggggggc gtagatggc agggcgccgc cgtggcgggg ccggggggaa cggcgagacc ccatactct gctctctc ctccttct tccctctcag ccaggagggag cggggggggc ggccggacca ggccggggat ccaggcgtag cggccatc ggggggccagg gcgcatacgg gggcgggagc cttagctct tggccggagt ctccgggggt ccggggggat ggggggcccg gcctgggggt caggggagccat alcttctgg ggctccgaggg gaggagcca agcgcccgga atagtcgagg ggccctggag cagccggaatg agggagcggg gattgaacac ggcgccagc catggggcag ccgggaacga gaggacaggac aggggaacagg gctctgttta tactggcgcc caggagctc ctctggggc cgggacagg cttggcaag aggtagctc tcaacgggg ctcgtctc agggggccgc ggctcgggga acagctcgcc cctcttca gacttttga ttggcgacca cgggtccca cgggtctct cccagcgga cgtcgggaca ggctccgca aataggggg caccggcg tctgtgggg aatagggg aacagggagc aagggtcagg gcaagagagc cagacatcc gaggcaaaa ggaagagccc ccggcgggag tcttccag ggccctcggg atctggcccc gaggctggalt caggacacg caggcgagg acagctctc catcaggtc agcaaccgc gaggctcgga cagctccga gcccggcc aaggcgatgc gctccgggg tcttccgc tgcggctcc tccggcggc ccggggcg cgtccccgg gactccggc ccgtccgaa gccaaggaaa taacctggc gaacctggc cggcttctgc ggccggcaaa ccggccccc gaggttccgc agtiacaata ccagggagcgg gttccgggaa ataggcgagc agggccagc gttgtctcag tgggtctca ggaacggac ggccggcgagg ccggggcgcc agtctactc gttggggcac tcatgaacag ccgctcgctc gaggctgtca gcatcgagcc</p>	Homo sapiens

[illegible]

[illegible]

Homo sapiens

P

NP_001398.1

Cadherin EGF
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

193524

636

gcaaggaggag cagaacaag ggaattcaag accagaaag taggtgccag tgcctciat gttaacagga tccctgtgg
ccctaggcac ctggctgca ggaagtgaact ccgttcaat cctcttatt tocttaaaa agggaaaaat gactgtacg
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PPEQPNELG IEHGVQPLGS RERETGQPG SVLYWRPEVS SCGRTGPLQR
GSLSPGALSS GVPGSGNSSP LPSEFLIRHH GPKPVSSQRN AGTGSRRKRVG
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TARTAPASGS APRESRTAPE PAPKRMRSRG LFRCLFPLQR PGP RPPLPA
RPEARV TSA NRARFRRAAN RHPQFPQYNY QTL VPENEA GTAVLRVVAQ
DPDAGEAGRL VYSLAALMNS RSLFSDIP QSGRLTAAA LDRESMERHY
LRVTAQDHGS PRLSATMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY
PILQLRATDG DAPPNANLRY RFVGPAAARA AAAAFAEIDP RSGLISTSGR
VDREHMESYE LVVEASDQGG EPGRSATVR VHTVLDEND NAFQFSEKRY
VAQVREDVRP HTVVLRVAT DRDKDANGLV HYNISGNSR GHFAIDSLTG
EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHIPI FVSTPFQVSV
LENAPLGHVS IHQAVDADH GENARLEYS LGVADPTPFV INSATGWVSV
SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE
YHLRLNEDAA VGTSVSVTA VDRDANSAS YQITGGNTRN RFAISTQGGV
GLVTLALPLD YKQERYFKLV LTASDRALHD HCYVHNITD ANTHRPFQS
AHYSVSVNED RPMGSTIVVI SASDD VGEN ARITYLLEDN LPQFRIDADS
GATLQAPLD YEDQVYTLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ
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IPELFQMDIF SGEALTALIDL DYEARQEYVI VQATSAPLV SRATVHVRLV
DQNDNSPVLN NFQILFNMYV SNRSDTFPSG IIGRIPAYDP DVSDHLFYSF
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LRVVIITEEL LANSITVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV
FIENIQNDTD VGGTVLNVSF SALAPRGAGA GAA GPWFSE ELQEQLYVRR
AALAAARSLD VLPFDNDVCL REPCENYMKC VSVLRFDSSA PFLASATLF
RPIQPIAGLR CRCPPGFTGD FCETELDL CY SNPCRNNGGAC ARREGGYTCV

DTEAGRCV PGVCRNGGTC TDAPNGGFR C QCPAGGAFEG			
SSFVMFRG LRQRFHLTSLSFATVQQSG LLFYNGRLNE			
QVRLTYST GESNTVVSPT VPGGLSDGQW HTVHLRYYNK			
SKDKVAVL SVDDCDVAVLQFGAEIGNY SCAAAGVQTS			
LGGVNLPEFPVSHKDF ICMRDLDHID GRRVDMAAFF			
KLHFCDSQP CKNSGFCSEWGSFSCDCPV GFGKDCQLT			
TLWNFGSD MAVSPWYLG LAFRTRATQG VLMQVQAGPH			
SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLEQEEPG			
LDLSLFQDT MAVGSELOGL KVKQLHVGL PPGSAEEAPQ			
GSTPSGSPA LLPSSHRVNA EPGCVVTNAC ASGPCPPHAD			
QPGYYGPG CVDACLLNPC QNQGSCRHLP GAPHGYTCDC			
RMDQQCPRG WWSPTCGPC NCDVHKGFDP NCNKTNGQCH			
SCLPCDCY PVSSTSRSCA PHSGQPCRP GALGRQCNSC			
RVLYDACP KSLRSGVWVP QTKFGVLATV PCPRGALGAA			
EPDLFNCTSPAFRELSLLDGLLNKTALDTMEAKKLAQ			
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NIMLSIDRMEHPSSPRGARYPRYHNSLFRQDAWDPH			
PSEVLPTSSSIENSTTS SVVPPAPPEPEPGISIHLLVYRTLGGLL			
LLPQNPMN SPVSVAVFH GRNFLRGILESPISLEFRLL			
WDPPGLAEQHGVTWATDC ELVHRNGSHA RCRCSTRGTTF			
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VSASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLL			
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ARSGRTOQDSQGRSYLRDNVLRHGSAAADHTDHS			
AMFHRDAGADSDSDLSLEERSLSIPSSSEDNGRTR			
SERLLTHPKDVGNDLLSYWPAIGECEAPCALQWGS			
ANNQPDALTSGDETSLGRAQRKQGLKNRLQYPLV			
RAATLGHRAVPAASYGRIYAGGTGSLSPASRYSSRE			
ERLEEAPAVLRPLSRPGSQECMDAAPGLEPKDRGST			
AMAGRFGS RDALDLGAPREWLSTLPPPRRTRDLDPQPP			
DPLPSRP LDSLRSNS REQLDQVPSR HPSREALGPLQLLRAREDS			
LDLSSILASFNSSALSSVQSSSTPLGPHTTATPSATA SVLGPSTPRS			
EVPRSEGHS			
cca gctcccaac agcagtlggc ccctaagta gaatggagact aacactgagg ccacccggc	A	Homo	
t cctactata gcaacaccc cctgtggcgg ccatgtcat tggctcat tctgtctctg		sapiens	
lgg tctgttcat cgtgtctcaag aacccggcaca tgcatactg caccacaalgt tcatctca			

Homo
sapiens

P

658 193914 Neuropeptide FF
1 Receptor NP_071429.1

aactggctgt cagtgacccg ctaggggaca tctctgcat gccacacc cttgtggaca acctcatcac tgggtggcc
 ttggacaatg ccacatgcaa gtagagggc ttgggacagg gcatgtctgt gtcgcttcc gttttacac tgggtggccat
 tgcgtgggaa aggttccgt gcatgtgca cccttccgc gtagaggtctga ccctgggaaa ggcgtctgic acctggccg
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 gccagcgac tccggcgtg ccctggagtc gggccctagc agtggggccc ccaggcccg ccgctcccg ctaggggaa
 ggcgggtggc taccacggc tgcacagg aaggcctgg cgtctccac ctagccctca ccatccagc ctaggatac tga
 MECGPSQPPN SSWPLSQNGT NTEATPATNL TFSYYQHTS PVAAMFIVAY
 ALFFLCMVG NTLVCFVLK NRHMTVTNM FILNLA VSDL LVGFCMPTT
 LVDNLITGWP FDNATCKMSG LVQGMVSAS VFTLVAIA VEF RFRICVHPFR
 EKLTLRKALV TIAVIWALAL LIMCPSAVTL TVTREHHFM VDARNRSYPL
 YSCWEAWPEK GMRRVYTTVL FSHYLA PLA LIVVMYARIA RKLCAQAGPA
 PGEEAADPR ASRRARVVH MLVMVALFFT LSWLPLWALL LLIDYGQLSA
 PQLHLVTVA FFAHWLAFF NSSANPIYG YFENFRRGF QAAFRARLCP
 RPSGSHKEAY SERPGGLLHR RVFVVVRPSD SGLPSESGPS SGAPRPGRLP
 LRNGRVAHHG LPREGPGCSH LPLTIPAWDI
 agatactgt actttctt caaacagcat aagaagtgt tgaagccaaa gatactgaa ggaagggtc cctcgagt
 tgggtgaag agataaata ccagtcacag actatgcacc cgtctgctg tttcagtc aggggaaaat agatgacat caaaacaaa
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 gctataact ccaataatg aaatgaatt gaattcaac ttaaaaaagc atagaaaga altcaaggti ttaggtcgt ttaggtcacc
 caatttcgaa tgcactct gtcgccaag tggagtgtca atggcacaat ctagggtcac caacctcg caacctcg
 ctaccgggt caagagatt cctgtctca gctcccaag tagctggat taccagacc tggcaccaca tccagctaac tttttgta
 tttaclag agacaggti tcaatgti ggcacacatg gtcicaaat cclgaact ggtgtacc ctagctggc
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 gatgctcat aattgggagc cagaaagtgg gctttgggtg agatatt gtagagatag catgtatata tcatgtca
 aaacccagta gctatgtt acagcaata aagaataat tagtaata aaaaaaaa aaaaaaaa aaaaaaaa
 aaaaaaaa aaa

Homo
sapiens

A

659 194319 G Protein-
Coupled Receptor
FLJ22684 NM_025048

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	MKVGVLWLIS FFTFTDGHGG FLGKNDDIKT KKELVNKKK HLGPEVEEYQL LLQVYRDSK EKRDLRNLFK LLKPPLLSH GLRIIRAKA TTDCNSLNGV LQCTCEDSYT WFPSCSLDPQ NCYLHTAGAL PSCECHLNNL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SAYSKEYANG IEIQLKKAYE RIQGFESVQV TQFRMSLLSP KLECNGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	atgagttctt gcaattcac acatgacacc ttgtgctta ttggtatccc aggattagag aaagccatt tcgtgggtgg cttcccctc ctttcatgt atgtatggc aatgttggc aatgacatg ttgtttctat cgtgaaggag gaacgagcc tgcacgtcc gatgacct ttctctgac tgcctgacg catgacctg gccitacca catcaacct gctgacct cttgacct ttggttga ttccgagag atagcttg aggcctgtc taccagatg ttcttacc atgacctc agccattgaa tccacctc tgcctggccat ggccttgac cgttatggc ccatcgca cccactggc catgctgac tgcatacaa taccataca gccacgatg gcatgagg tgggtggc ggcctctct tttttccc acgtctctg ctagcaagc ggcctggcct cgtccacct aatgtctct cgcatctta ttgtgtcac caggatgaa tgaagtggc ctagcagac acttgccca atgtgttata tggcttact gccatctgc tggcatggg cgtggacgta atgtcatc cctgtctta ttctgata atacgaagc ttctgcaact gcttccaag tcaagcggg ccaaggctt tggaaacctgt ggtcacaca ttgtgtgtt actgacctc tatgtgccc ttatggcct ctagttgta caccgttg gaaacagcct tcatccatt ggtgtgtg tcatgggtga catctactg cgtgtgccc tgcatacaa tccatcatc tatgtgcca aaaccaaaa gacagaaca cgggtgtg ctagttcaa gatcagctg gacaaggact tgcaggctg gggaggcaag tga MSSCNFTHAT FVLIGIPGLE KAHFWVGFP LLSMYVVMFG NCIVVFIVRT	P	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	ERSLHAPMYL FLCMLAIDL ALSTSTMPKI LALFWFDSRE ISFEACLTQM FFIHLSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQIGIVAVVR GSLFFFLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVVYGLT AILLVMGVDV MFISLSVFLI IRTVLQPSK SERAKAFGTC VSHIGVLAFL YVPLIGLSVV HRFNGSLHPI VRVVMGDIYL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGGK acttttca tgttctct gagggaaga tgaagaat gaaagcagag tatgacct ttataggag atcaaatg catctactg gattagctc aaagtccca aaatacaag acatcaatc gacagatcac tgaaggagagg actgtttt cgtttttaga atagtctcg atataacti ttatgctaa agaaagaa gctatgtatt tctacccag gatgtggtat tgggttggc ttacatgg cttctgccc tgcctggaac ctatgggtgc tgggtgtgt cgtgtgtgga ctactgact gcatcattt gggactgggc atctggaga ttgtatcag gattcaaaa ggaataatc ctctctalc aagcaccct acagagttct gcaaggaaagg tggaaacctgg gaaatggca gatgtattg tacaagaagc tgaagaagac tgaatgtac aatgtctaat ttgtgaaa atagtaccta tatgggttt acttttgcca gaatccagt gggcagatatt ggaacatct tgcatacatg tggcaagat actccaatg cgggcaatcc aatggcagc cttgtgtgca gttctctct atatggagag atagaatc aaaaatgac aataggaaat tgcatagaaa atctggaaac cctggaaaag caggtagagg atgtcacag accatctat aacattct ctagagttcca gatttaaca tctgagcca alaaatlaac tctgtgaac atcatagtg ctacgaggt ggttgagcag alatacaaa ctocagaaa tgcitcact ggggcaaga aagtggcat agtaacag agtaacatc tagatggcag tgaatgctt cctgtctt tttcaagag ttgtgtctac tgcataat gatgocctta caactctat tgaagaaat gtagctat cctgtctt ggttaataca tcatgtgtgg aacctaaat agcaatacag tcaagaat ttcttcaga aaatggggg gggcctcaa atgtgtctt ctctgtgca aagggagctia gcaatctct agttctagt tcaacttia tacaataa tgggtgagc cttaacccc atgcacagac tgaagctcag gttctgctia atatgagaa aaattacac aagacatgct gctttgagt ttataaat gacaagct tcaatacaa aactttiaa gctaaatcgg attttgca aaaaattat tcaagcaaa ctagaagaa tgaagaaat cagatgtct cgtgtgacal ggtctttagt ccaagatca accataaaga atttcaact latctatg cctgtgctia ttggaattg tcaagaaagg actggagacac atatggctgt caaaaagaca aggggcactga tggattcttg cgtgcccgt gcaacacalac taaatttt gctgtattaa tgaatllcaa aagggattat caatatcca	P	Homo sapiens
663	194743	FLJ14454	NM_032787		A	Homo sapiens

664	194743	FLJ14454	NP_116176.1			<p>aalcactga catattatcc aacgttggat gggcactgic tggtagctgc cggctctcica cagttatatt tcaagttagc accagggaag tcaaaaaac ctacgaatcc tgggtttgg tcaatctgfc calatcaatg tgaatttca acctctctt tgggttggga atgaanaact ccaataagaa ctggcagaca agtgaaggig acaatataa taatgactt gcaataatg acaatocag gacagacacc atlaacatcc cgaatoccal gggcactgic atggccgt tactgcacta ttcttgta gtagactia cctggaaacgc actcagcgt ggcagcgtct atlaactct aataaggacc atgaagcctc ttccggca ttcaatcti ttacatcal taattggatg gggagttcca gctatagtag tggctataac agtggagagt altattctc agaatggaaa taatocacag tgggaattag actaocggca agagaaaac tgggttggctgg caattccaga accaatggt gtaaaaaa tcccgctgt gggctatc atcgtacccg taocattat cctcatcgc aatgttgta tggtaatac aatcggatc aaggtgctgt ggaagataaa cgaagaccig acaagacaca aaaaagtgc atccatgaag aagatgta gcaatatac tggcaggt ttgttgga ttaccttgga ttactgatac ctgactag ttatgata tagcatcagg atcgtctca gctacatatt cggctcttc aacatcac agggatgga aattttatc ctgtacacig ttagaacaaa agcttccag agtgaagctt ccaaggtgt gatttgta tggctatg ggaagaaaggaa gcatggct tcagtgacgc ggcgaagct gggtaaaag atgataat tccatggc atggcaaac ttacatgac gcttaagct actggaaacc tctcagta ctgaggaal cacactct gaaagtga aagcaaggga aagcaatg ctctcaat gtaattgct caggtatag aatcacctcg ttgagttt atcgtttt cctcttatt tccagttt ctgagaaagt ctctcaat gtaattgct caggtatag aattagataa aacgtgtgt ttattat ttggcataat ggaacttgta gttttat ttccaatg atgtactt gaataaggtg aagaattca cacaatcac aagatacca ttgtctta tatogtaaa tcttgtag acattgac aaaaatgtag aacctatac aaattctt acaattact ataaaggaca caaagagaaa acattaccti ccagaacaaa atgactcctg atgaacagtg tgggggatt tggtagtg tattaacti tggactcig</p>	Homo sapiens
665	194745	G Protein-Coupled Receptor SLT/MCH2	NM_032503		A	<p>MASCRAWNLRLVLA VVCGLL TGILGLIW RIVRIQRGK STSSSTPTE FCRNGGTWEN GRCTEEWK GLRGTIANFC ENSTYMGFTF ARIPVGRYGP SLQTCGKDTN NAGNPMVRL CSLSLYGEIE LQKVTIGNCN ENLETKQV EDVTAPLNNI SSEVQILTSD ANKLTAEINT SATRVVGQF NTSRNASPEA KKVAIVTVSQ LLDASEDAFQ RVAATANDDA LTTLIEQMET YSLSLGNQSV VEPNAIQSA NFSSENA VGP SNVRFVQKG ASSSLVSSST FIHTNVVDGLN PDAQTELQVL LNMTKNYTKT CGFVVYQNDK LFQSKTFTAK SDFSQKIIS KTDENEQDQS ASVDMVFSPK YNQKEQLYS YACVYWNLSA KDWDITYGCQK DKGTDGFLRC RCNHTTNFAV LMTFKKDYQY PKSLDILSNV GCALSVTGLA LTVIFQIVTR KVRKTSVTWV LVNLCISMLI FNLLFVFGIE NSKNLQTS GDINNIDFDN NDIPRTDIN IPNPMCTAIA ALLHYFLLVT FTWNLSAAQ LYLLIRTMK PLPRHFILFI SLIGWGVPAI VVAITGVVY SQNGNNPQWE LDYRQEKICW LAIPEPNGVI KSPLL WSFIV PVTILISNV VMFITISIKV LWKNNQNLT TKKVSSMMKI VSTLSVAVF GITWILAYLM LVNDDSRIV FSYIFCLFNT TQGLQIFILY TVRTKVQFSE ASKVLMLLSS IGRKSLPSV TRPRLRVKMY NFLRSLPTLH ERFRLLETSP STEEITLSES DNAKESI</p> <p>cggccgcgg cagggtgic gaggaccca cgcctcctaa aagagacaga cgcacccgat gctcagattg gatgaagtc aaagcttaa tccctggaaa ggccacgaac aatgaatca ttatcatat ctgttgtaa caccctggcc gaactttaa acaaatccg gaataaag ttgctatc aaactggcag tgggtggat acagtatcc tccctcat gattggat atctgtcaa cagggtgtg tggcaatc ctatgtat tcaataat aagatcagg aaaaaacag tccctgacat ctatctcgc aacctggctg tggcgtgt ggccacata gttggaagc ctcttcat tcaacaaagg gcccgagggg gagaatgggt gtttgggggg cctctctgca ccatcacat atccctggat actgtaacc aattggctg tagtgccatc atgactgtaa tgaatggga cagggtactt gccctcgtcc</p>	Homo sapiens

666	194745	G Protein- Coupled Receptor SLT/MCH2	NP_115892.1	<p>aaccatttcg actgacacgt tggagaacaa ggtaacaagc catccggatc aatttgggoc ttggggcagc ttccittalc ctggcattgc ctgtctgggt clactgaag gtaacaaat tlaaagacgg tggtagagt tggcttttg atttgacalc cccigacgat gtactctgt atacacttta ttgacgala acaactttt ttccctct acccttgatt ttgggtgct alattttat ttatgclat acttgggaga tglatacaa gaataaggat gccagatgct gcaatccacg tgaacaaaa cagaragiga tgaagtggac aaagatggg ctgggtctgg tggtagtct talccctagt gctggccctt atcatgtagt acaactggg aacttacaga tggacaagoc cacatgggc ttctatggg gttattact ctcactgt ctagctatg ccagcagcag cattaacct ttcttaca tctgtctgag tggaaattc cagaacgct tgcctcaaat ccaagaaga gogacttga aggaatacaa caatattggga aacacttga aalcacact ttaggaaagt acaatgalt aatgagct agcatgatt gtaactta ctgtattat tagaaagggc aggtgtacog alatgttat gccattct ctgtgtact tgtgactct agcagcattg aagagaagtg taaccatgca aatacaatga gcttaatalg ctaactgtaa aaaaaaaa aaaaaaaa</p> <p>MNPFHASCWN TSAELNKSX NKEFAYQTAS VVDTVLPSM IGIICSTGLV GNILIVFTII P RSRKKTVPI YICNLAVADL VHIVGMPFLI HQWARGGEWV FGGPLCTIIT SLDTCNQFAC SAIMTVMSVD RYFALVQFRLTRWRTRYKT IRINLGLWAA SFILALPVWV YSKVIKFKDG VESCAFDLTS PDDVLWYTLV LTITTFEPL PLILVCYLI LCYTWMYQQ NKDARCCNPS VPKQXVMKLT KMLVVLVVVF ILSAAPHYHVI QLVNLQMEQP TLAFYVGYL SICLSYASS INPFLYLLS GNFQRLPQI QRRATEKEIN NMGNTLKSHP</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ccacacac aggaocgca tctgggtga tgaagtga cagcagcag ctgggtgagt gtaacgctc agataagcat ctgtgocatt gtegggact cctgggtgc tctgacocg gacattgct ctgctccgc catgtacac eggtgctgct ggcgcaloga gggggacac atctccagg tgaicggcc gctgctatt gggcttgg actgggacat ggggctgoc ctgtgtggt ctgtctac atgaagacct ggaaagocag cactgtttac ctittcaat tggcctgggc tgaattctc cttaigtat gcttgcctt tggagacac tattactca gactgaaga ctgggtctt ggggacalc cctgctgagt ggggtcttc acgttggcca tgaacagggc cggggagcalt gtttctta cgttgggtgg tggagacagg tattcaaa gttgtcaoc ccacacgog gtaacacta tctccacog ggtggcggtt ggcattgctt gcaocctgg gggccggct alcctgggaa cagtgtatct ttgtggag aacattctt gctgtgaaga gacggcggc tctgtgaga gcttcatcat gtagtgggc aatggctggc atgacatcat gtocagctg ggttcttta tggccctgg calcaltta ttgtctct tcaagattgt ttggacctg agggcgaggc agcagctggc cagacaggct cggatgaaga aggcagacog gttcalcalt gttgtggcaa ttgtgtcal cacatgtac ctgcccagcg tgtgttag aciatlct cttgttag tgcctcgag tgcctcgat cctctgtoc atggggcctt gcacataac ctacgttca cclacatgaa cagcaltgct gttccctgg tgaattatt tcaagoccc tctttcca aatcttcaa caagctcaa atctgagc tgaacocaa gcaagcagga cactcaaaa cacaaggoc ggaagagalt ccaatttga accctggct caggagtgc atcagtgtgg caaagatt ccaagccag tctatgggc aatgggaltc ccacatgtt ggtgtgact gaacaagcag accaacaaca ctgaggaaga tagagtggtg acttgaatt aactgtgtt aaggggtgg gggcttga aalgocac ccttctta ttgcaagac gctctcgca calgaactgc atocttca tctgtcga aatgaalt acacact acccttgg gaggttccag ti</p> <p>MYNGSCCREE GDTISQVMPP LLIVAFVLA LGNGVALCGF CFHMKTWKPS P TVYLFNLAVA DFLMCLPF RTDYVLRRLH WAFGDIPCRV GLFTLAMNRA GSIVFLTVVA ADYFKVVRP HHAVENTISTR VAAGIVCTLW ALVILGTVYL LLENHLCVQE TAVYCESFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQQLA RQARMKKATR FIMVVAIVFI TCYLPVSAR LYFLWTPSS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPKPFYN KLKICSLKPK</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1		Homo sapiens

671	194858	G Protein-Coupled Receptor LS194858	LG94710	QGLFIFLHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV ttagtttaag tcaagctcga cactcgttgg gctcgttggg tggtaggcaa tgcctggggcc gggactctgc cgggaggctc ttcccacag cccctggagg cacttgggg cggctccct ccagggggct gctgtagcgt gctgtagcgt gctgtagcgt cccatggct acggggcactg ccgctgact ggcacttct agggagagaga gggagacacag tgcocaggc cccagtgggc gggcgtgctc ataggccagg actgagagaga gcaagtggg cactgtagg cccagcaca gcccagagag cagcaltggct ccagctgctg cccttggctg cctcagctga agggccggg caggggggga gggctcactg cgggacactg cccctccag cggcagagag tctcagctg gggggggg agtgccagc acgctggacag agtagagagg agcagacaccc acggcgggcca gcaaggagccc atagacttgc aggtacaggt agggggctgg gtagtagacc tgggagctgc agtgggcacc agggggtocag tgggtccacc ccagagcggg cagactggga agtagcagg gtagccca ggtgagggagc agggccagcc gaatgctccc agggggctgg agtggccca ggcctggcc gtagcctcc ccgtgaccca gcaagaggtt gggcaagcagg gtagagagagg agaaagtggg agccaagtac acgagaggagc agtagcctca acccgggcga cctcgttcc acagccctgg caatgtagggc aatgccaagc ccgtgagcag cccagccagc agtaggctca ggaagtagca gcccagcagg gggctgctgca gggcgggctc ccaggcgag ccaggggcta ggaagcaggt cggggtagt atgagcttg ccaggccag ggaagggccc aagggccctc tgggaaagg gctggggccc tggcagctg tggggctg cacttggc cggggagcag ggaagctcgg gaggcgggc cggcagc QDTRHGNRC RAGCSNLT RKAQAQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLPEPTAGW AAHGSGLTL PGLWNQSRG YWSCLLVLA PNFSLSLLA NLLL VHGERY MAVLRPLQPP GSRLALLT WAGPLFLASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT tcaagccag gataagtaa tcaagggtc cagagcactg gctagatgag tgggggggtt tgaacctaa tgtatccc atgttagcac agaatcttg tggcagtaga gtagagtcag gctcagagt cagcaagaac tggatttcaa actgatttg agggacocca cctttgata gggacttat tctctgtag tctctgact gccccttla aatgaggaag taatcccac atggcagggt ggtagggaga atcagagalc atacagctgg tgalcacaac tggtttgtt tccagggtc accagactgg ggttctgag catggattca accatccag tctggggac agaatgaca ccaatcaacg gactgtagga gactcctgc tacaagcaga ccctgagct caggggctg actgtagcag ttccctgt cggctgaca ggaagcgg tttgtgctcgt gctcggggc tgcagcagc gcaaggaagc tgtccalcac lalacttca accctggcgg ggcagactt ccttcttla gggccacat tatalgtc ccgttagccc tcalcaat ccggccatcc atctcaaaa tctcagtc tttgtagacc ttccctact tatalggct aagcagctg agcgccalca gcaaggagc cgtccctgct atctgtggc ccatctgga ccatggccg cggccacag actgtcalt ggctatgt gctcgtct gggccctg cctcctgagg agtatccgg agtggagt cgtgactt cgtttatgg gctcgtatc tgttgggt gaaagtcag atttcatc aatggctgg cgtgtttt tatgttgg tctctgggg tccagctgg tctcgtggt caggaltct tgggaltcc ggaagatgcc gctgaocagg cgtacgtga ccatcctc cactgctg gcttctcc tctgggct gcccctgg atcagtgagg cccgtttc caggatccac ctggattgga aggtctatt tttgattg catctgtt ccatttct gtcctgctt aacagcag ccaacccat cattactt tctggaggt ccttaggca gctgcaaat aggcagaaac tgaagctgt tctcagagg gctcgtcagg acagccctga ggtggagtaga ggtggaggggt ggttcttca ggaagaccc gagctctgg gaaagcagat ggaagcagta ggaagaaact cgtccctg agaacagact ttagaggaac tgcctgccc ccaccctga caattatg catcttct agcctctg ctagaag	A	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP00000053	QDTRHGNRC RAGCSNLT RKAQAQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLPEPTAGW AAHGSGLTL PGLWNQSRG YWSCLLVLA PNFSLSLLA NLLL VHGERY MAVLRPLQPP GSRLALLT WAGPLFLASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT tcaagccag gataagtaa tcaagggtc cagagcactg gctagatgag tgggggggtt tgaacctaa tgtatccc atgttagcac agaatcttg tggcagtaga gtagagtcag gctcagagt cagcaagaac tggatttcaa actgatttg agggacocca cctttgata gggacttat tctctgtag tctctgact gccccttla aatgaggaag taatcccac atggcagggt ggtagggaga atcagagalc atacagctgg tgalcacaac tggtttgtt tccagggtc accagactgg ggttctgag catggattca accatccag tctggggac agaatgaca ccaatcaacg gactgtagga gactcctgc tacaagcaga ccctgagct caggggctg actgtagcag ttccctgt cggctgaca ggaagcgg tttgtgctcgt gctcggggc tgcagcagc gcaaggaagc tgtccalcac lalacttca accctggcgg ggcagactt ccttcttla gggccacat tatalgtc ccgttagccc tcalcaat ccggccatcc atctcaaaa tctcagtc tttgtagacc ttccctact tatalggct aagcagctg agcgccalca gcaaggagc cgtccctgct atctgtggc ccatctgga ccatggccg cggccacag actgtcalt ggctatgt gctcgtct gggccctg cctcctgagg agtatccgg agtggagt cgtgactt cgtttatgg gctcgtatc tgttgggt gaaagtcag atttcatc aatggctgg cgtgtttt tatgttgg tctctgggg tccagctgg tctcgtggt caggaltct tgggaltcc ggaagatgcc gctgaocagg cgtacgtga ccatcctc cactgctg gcttctcc tctgggct gcccctgg atcagtgagg cccgtttc caggatccac ctggattgga aggtctatt tttgattg catctgtt ccatttct gtcctgctt aacagcag ccaacccat cattactt tctggaggt ccttaggca gctgcaaat aggcagaaac tgaagctgt tctcagagg gctcgtcagg acagccctga ggtggagtaga ggtggaggggt ggttcttca ggaagaccc gagctctgg gaaagcagat ggaagcagta ggaagaaact cgtccctg agaacagact ttagaggaac tgcctgccc ccaccctga caattatg catcttct agcctctg ctagaag	P	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	QDTRHGNRC RAGCSNLT RKAQAQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLPEPTAGW AAHGSGLTL PGLWNQSRG YWSCLLVLA PNFSLSLLA NLLL VHGERY MAVLRPLQPP GSRLALLT WAGPLFLASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT tcaagccag gataagtaa tcaagggtc cagagcactg gctagatgag tgggggggtt tgaacctaa tgtatccc atgttagcac agaatcttg tggcagtaga gtagagtcag gctcagagt cagcaagaac tggatttcaa actgatttg agggacocca cctttgata gggacttat tctctgtag tctctgact gccccttla aatgaggaag taatcccac atggcagggt ggtagggaga atcagagalc atacagctgg tgalcacaac tggtttgtt tccagggtc accagactgg ggttctgag catggattca accatccag tctggggac agaatgaca ccaatcaacg gactgtagga gactcctgc tacaagcaga ccctgagct caggggctg actgtagcag ttccctgt cggctgaca ggaagcgg tttgtgctcgt gctcggggc tgcagcagc gcaaggaagc tgtccalcac lalacttca accctggcgg ggcagactt ccttcttla gggccacat tatalgtc ccgttagccc tcalcaat ccggccatcc atctcaaaa tctcagtc tttgtagacc ttccctact tatalggct aagcagctg agcgccalca gcaaggagc cgtccctgct atctgtggc ccatctgga ccatggccg cggccacag actgtcalt ggctatgt gctcgtct gggccctg cctcctgagg agtatccgg agtggagt cgtgactt cgtttatgg gctcgtatc tgttgggt gaaagtcag atttcatc aatggctgg cgtgtttt tatgttgg tctctgggg tccagctgg tctcgtggt caggaltct tgggaltcc ggaagatgcc gctgaocagg cgtacgtga ccatcctc cactgctg gcttctcc tctgggct gcccctgg atcagtgagg cccgtttc caggatccac ctggattgga aggtctatt tttgattg catctgtt ccatttct gtcctgctt aacagcag ccaacccat cattactt tctggaggt ccttaggca gctgcaaat aggcagaaac tgaagctgt tctcagagg gctcgtcagg acagccctga ggtggagtaga ggtggaggggt ggttcttca ggaagaccc gagctctgg gaaagcagat ggaagcagta ggaagaaact cgtccctg agaacagact ttagaggaac tgcctgccc ccaccctga caattatg catcttct agcctctg ctagaag	A	Homo sapiens

674	194878	MrgX3 G Protein-Coupled Receptor	AAK91806.1	MDSTIPVLGT ELTPINGREE TPCYKQILSF TGLTCLIVSLV ALTGNAVVLW LLGCRMRRNA VSIYLNLA ADFLFLSGHI ICSPRLINI RHPISKILSP VMTPFYFIGL SMLSIASTER CLSILWPIWY HCRPRYLSS VMCVLLWALS LLRSILEWMF CDFLFGADS VWCETSDFIT IAWLVFLCV LCGSSLLV LILCGSRKMP LTRLVVTILL TVLVFLCGL PFGIQWALFS RHLDWKVLF CHVHLVSIFL SALNSSANPI IYFVCSFRQ QRNRQNLKLV LQRALQDTPV VDEGGGWLPQ ETELSGSRL EQ	P	Homo sapiens
675	194903	G Protein- Coupled Receptor GPCRB3	LG100657	tcagggtgag cagcagggcc tgggtgag ctagagagag gcttgagagt gctctggtct gttgagagct gggcgccaga ggatcagta gcatatagg agaaatacc caccgaaagcc gctgctcagg cgtctcagcc cagccatcat gttggccgga ggcaggtact tggctcgtga gacgttggcc gttgtgaaaga agcgtaacca gggacgaaag ttgaaagaga ggtctgaagt gacacattg gctcgtgt agttcttgg caagtctta cccaggtaagc tgcagggcaaa ggcacatgag gaaaggaaggc catgtagag gaaaggccagt atgaaagccca gggagtttgt cttgtgcac tcaagcatca ccaagatgggg gaaagcttgg tatccctag caggcagtg ggtccacacc accagccaaag ttgaaagat aagcagcttgg gcccgtgagc tgaatcac aaacagccca gcaocgttgt ttggaccca ggcgttgtag aatgtagata ctttgttga aaactgaaag atgaltgta gttgaaag gctgaacgtc aggcagggaca ggaagatgtgt gaaacaaagg gcaagagagg cctggcgttag caagcacgca ggccttgttgg gttcccaaa gaaagccatag aggtctggccac taccgttgc cagggtgagcc agcataaaga agcacagggc ggcccttgt gactaccca cagggggttgc taggttccag gcaaaagggc cagcagttcc aagcagcagc agcagcagca gctgttagc tgcagcagc accaaagagg tttgtctacg caaagccaaa aacacacag tggcgggggaa gcaaggtctgg cttccctcag gttccacac ttcttcca caaggttggc atctgttag gttgaaagg gaaaggtcctgg aaggttctgg agagccagat gacagagta ggaataggaa ataggggccct gcaagatagt ggaagatgtg taccagggca gtaagactat acttgagaa cacacagtc ggttctgtat ggtctatgat cccatgagggt ttggcaaac cctagggagag acctaaacct ggtagctctg cccacatacc agaaaggta cgtatgttag ggaagcagctt gctccaaagg gaaaggtcattg taacccctt ctctgctc ctttccatg aaccattc ctgagcttct gctctgttct tcttctagt cctggaccc tgaagacaga agggaaagtat tcttccct acagagagaa gaaagggaa gaaatgtggcc cctggacacc aactaaggac ctgagttctt agctaccta ttgtctct gttctgacc ttgcatctt ggaaggggaa tggcttctt tcttctct cagcacagct agtatctgta ttcaaggccaa gctgtcaag gtagctagctg tcttggcat ggggcaacaga agggacagta ggaacagaggg gcaacaaagg gaaatagct atatctatt agagaaagag gttgaatca ggaatagact gctttttag gttgttag gaaagctc taacagagga cacacctcag tctaaagct tcagttggct aattcttct tcttctt ttgttaga cagagttt cttgttgc ccaggcttga gttcaatgtgt gcaatcttg ctac'tgcaa cctccgctc ccgggttcaa gcaattctc tggctcagcc tccgtgtag ctggaaatag agggacacag cacacgccc ggttaactt ttgtatt ttgttaga tgggtttca ccatgtgtt cagggttggc tggaaacct gacctagggt gataccacca cctcggccct ccaaaagtct ggtgtataga gttgttga cctcgtggcc cctccttct ttttgggg ggaagaaatc tggcttggg gttcagggctg gaaatgcat tgggtcagc caacctcc cctcgtgggt caaggtgalt tctgtctca gctcccgag tagcttggat taccagcag cggccacaca cccagataa tttaatt ttgttagag atgggggttc accatgttgg ccaggcttgg ctgaaactcc gaaactaaag tgaacacc gctcagctt cccaaaggtc tgggttaca ggcagtagcc accgaccca gttgtgatt cttgtatca gaaatctgtc tggtagcagg gttcttcaa cctgaaagct acttgagcc cagtgtatg gcttgggtc tggggcaggg cactgggggg ccaaggggag cctcctcc accgttgcagc ccccgggg gcttggtagc tggcttgc catgtccac tcaacct tttgttagaa ggttccagcc ccacagggga cacactcaaa gacagagta tggaaacccg taacacttgc ctgtgtcc tcaagatagt cgttgggaca cacagacta ggcactctga agaaagcca gggggccacac gtagggggcc aaggtcagac acagctcaca tttgtgaaag aaaaacagaaat ctctgttcat ctgctcag ggtctactcc caggggcagg ccttggctg tttgaattc cggccaggg cacttgcaca	A	Homo sapiens

[illegible]

677	194904	WO0034334- hFB41A	AX147788	<p>VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HORVVTFGHH CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSTQCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAGGRL CFLMLGSLAA GSGSLYGFEG EPTRPACLLR QALFALGFTI FLCLTVRSF QLIIFKFST KVPFYHAWV QNHGAGLFVMISSAAQLLIC LTWL VVWVTP L PAREYQRFP LVMLECTETN SLGFLAFLY NGLLSISAF CSYLKDDLPE NYNEAKCVTF SLLENFVSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRCGST</p> <p>gagcaacatg atcttttga agtactgac ggtgtcgttc ttgacggta cgaagcacag agtgttgatc atgttgttc tcatggcgat gcactcgacg atgttagagg cagttaggtg ggtgttgttc ttcaacaaca cgttggggaa gaagtgcgc acgtatgtga agccgttagaa gggcgccacg calagcacgt aggcgggtgag gatgcacatg agcaccaagg cegtctct gggcgacgc agccctgtc ggtatgtct tcttgtgaat ccaggggaccg ccttgaacca ggtctcccg gtagatccttg calagcacag ggtcatgttg accacggggc ccaggaattc tatgccaag ataaagaggga agtaggacti gtagtagagc tgcgtgtcca caggccagat ctggccgacg aagatcttt cttggtctt gacaatgac aggaocgtct cgtgtgtgaa gtagcgga ggatggga tcaaggatga caggtccac accaaggcaa tcaaggcagt ggtgtgttg cacttatic gttgtctcag cgtatggga atagccagat acctaggga agaacacaag tggaggcagc c</p> <p>MGFMDDNATN TSTFLSVLN PHGAHATSP FNFSYSDYM PLDEDEDVTN P</p> <p>SRITFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLIVKSQEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFPTVF VKEKHLYLTA YIVECIAMSN SMINTLCFTV VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacagagg gccggccgcc atgttgtagct gtagctgtgt caacggcaca gggctgtgttg agtagctgtcc tgcctgocag gacctgtcagc tggggctgtc actgtgtctg ctgtgtgtggcc tgggtgtgttg cgtgtccagtgt ggtcgtgtct acaatgccc gctgtgtctg gccaacctac accagcaaggc cagcalgac accatggacg tgtacttgt caacatggca gtagcagcc tgggtctcag cgtccctggcc cctgtgcacc tgcctggccc cccgagctcc cgtgtgtgttg tgtgtgtgt gggcggtcga gtccacgttg cactgcagat cccctcaat gttgtctcac tgggtgtccat gtagtccacc gctcgtcga gctcgaacca ctacalcgag cgtgtcactgc cgtggacctc calggccagc gttgtacaaca cgtgtgtcagt gttgtgtgtc gttgtgtgtg gctgtgtct gaccagctc tctgtctgc tcttctac ctgcagccat gttgtccacc gctgtgtcga gttgtgtcag atgcaagacg cagaaagctg cgtgcgcacg ctgtgtgtc tgggtcagc ctgtgtcagc ctgtgtcagc tctacgtct ggtgtctac tccgtgtcc gcaaggagga cactgtgttg gtagtctgtac gtagtctgtac gtagtctgtac gtagtctgtac tctgtgtgtc cactgtgtc actgtgtgt ggtctgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt tctgtgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt cagcagcttt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt tgcctgtgt gtagtctgt cgtgtgtgt atctgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt</p>	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	<p>SRITFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLIVKSQEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFPTVF VKEKHLYLTA YIVECIAMSN SMINTLCFTV VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacagagg gccggccgcc atgttgtagct gtagctgtgt caacggcaca gggctgtgttg agtagctgtcc tgcctgocag gacctgtcagc tggggctgtc actgtgtctg ctgtgtgtggcc tgggtgtgttg cgtgtccagtgt ggtcgtgtct acaatgccc gctgtgtctg gccaacctac accagcaaggc cagcalgac accatggacg tgtacttgt caacatggca gtagcagcc tgggtctcag cgtccctggcc cctgtgcacc tgcctggccc cccgagctcc cgtgtgtgttg tgtgtgtgt gggcggtcga gtccacgttg cactgcagat cccctcaat gttgtctcac tgggtgtccat gtagtccacc gctcgtcga gctcgaacca ctacalcgag cgtgtcactgc cgtggacctc calggccagc gttgtacaaca cgtgtgtcagt gttgtgtgtc gttgtgtgtg gctgtgtct gaccagctc tctgtctgc tcttctac ctgcagccat gttgtccacc gctgtgtcga gttgtgtcag atgcaagacg cagaaagctg cgtgcgcacg ctgtgtgtc tgggtcagc ctgtgtcagc ctgtgtcagc tctacgtct ggtgtctac tccgtgtcc gcaaggagga cactgtgttg gtagtctgtac gtagtctgtac gtagtctgtac gtagtctgtac tctgtgtgtc cactgtgtc actgtgtgt ggtctgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt tctgtgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt cagcagcttt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt tgcctgtgt gtagtctgt cgtgtgtgt atctgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt</p>	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	<p>SRITFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLIVKSQEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFPTVF VKEKHLYLTA YIVECIAMSN SMINTLCFTV VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacagagg gccggccgcc atgttgtagct gtagctgtgt caacggcaca gggctgtgttg agtagctgtcc tgcctgocag gacctgtcagc tggggctgtc actgtgtctg ctgtgtgtggcc tgggtgtgttg cgtgtccagtgt ggtcgtgtct acaatgccc gctgtgtctg gccaacctac accagcaaggc cagcalgac accatggacg tgtacttgt caacatggca gtagcagcc tgggtctcag cgtccctggcc cctgtgcacc tgcctggccc cccgagctcc cgtgtgtgttg tgtgtgtgt gggcggtcga gtccacgttg cactgcagat cccctcaat gttgtctcac tgggtgtccat gtagtccacc gctcgtcga gctcgaacca ctacalcgag cgtgtcactgc cgtggacctc calggccagc gttgtacaaca cgtgtgtcagt gttgtgtgtc gttgtgtgtg gctgtgtct gaccagctc tctgtctgc tcttctac ctgcagccat gttgtccacc gctgtgtcga gttgtgtcag atgcaagacg cagaaagctg cgtgcgcacg ctgtgtgtc tgggtcagc ctgtgtcagc ctgtgtcagc tctacgtct ggtgtctac tccgtgtcc gcaaggagga cactgtgttg gtagtctgtac gtagtctgtac gtagtctgtac gtagtctgtac tctgtgtgtc cactgtgtc actgtgtgt ggtctgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt tctgtgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt cagcagcttt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt tgcctgtgt gtagtctgt cgtgtgtgt atctgtgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt gtagtctgt</p>	Homo sapiens

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>ccctcgcgc ttcagctcc tccagcattca gtttgcaat gaagtgatga aagcttagag ccaglatlta tactttggg ttaataact tgattccccc ttgtttgtt tacaaaaa gattttcct agaaaaatga caaatagtaa aatgaacaa accctacgaa agaatggcaa cagccaggtt ggcggggccc tgcagtggtg cggcgtgtgc tagcaagccc tgcgggggtt gccgagctca ccacaggggt ctgagaacat ttacagaag tgcctgagac gggagacat ggcctgggtt aaatgagct attcaatagc agtgacgagc tctctcagc caccatgt cctgacacc ctcaccagc ccacagata acatcagctg aggtttttt caglatgaac ctgcttaaa tcaattcct aaagtgtga caaaactaa gaataaat aaacaaaga aagtgaaa aaaaaaaa aaaa</p> <p>MWSCSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVGVVPV GLCYNALLVL ANLHKSAMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RNALWSVGGE VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIFYVYVPA LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAAGGCCG GGAATGTCCC CTGAATGCC GCGGACCG GCGACCGC CTTGCCGAG CTTGGAGCAA GCCAACCGCA CCCGCTTCC CTCTCTCC GACGTCAAG GCGACCCCG GCTGTGCTG GCGCGGTG AGACAACCGT GCTGTGCTC ATCTTTGACG TGTGCTGCT GGGCAACGTG TGGCCCTGG TGCTGTGGC GCGCCGACGA CGCCGCGCG CGACTGCCG CTTGTACTC AACCTCTCT GCGCGGACCT GCTTTCATC AGCGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG CCTCCCTGCT GGGCCCGCT GCTGCCAC CTCTCTCTA CGTGATGACC CTGAGCGCA GCGTACCAT CCTACGCTG GCGCGGTCA GCTGGAGGG CATGCTGCG ATCGRGACC TGGAGCGCG GCGCGGGT CTTCCGCGG GCGCGCGGC AGTGTGCTG GCSCTCATCT GCGCTATTC GCGGTGCGC GCTGTGCTC TGTGCTCTT CTTGAGTGC GTCCGCAAC GGTCCCGG CGCCGACAG GAAATTCGA TTGCAACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGATGC TCTTTGTA CTTTGAACTT CTTGGTGCCA GGACTGTCA TTGTGATCAG TTAACCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGTCACCG TAAGCTGCTG CTACTCGGAG ACCCACCAGA TCCGCTGTC CCAGCAGGAC TTCGGCTCT TCCGACCTT CTTCCTCTC ATGCTCTCT TCTCATCAT GTGGAGCCC ATCATCATCA CCATCTCTT CATCTGATC CAGAACTCA AGCAAGACCT GGTCTATCG CCGTCCCTT TCTCTGGGT GGTCCCTTC ACATTTGTA ATTCAGCCTT AAACCCATC CTCTACAA TGACACTGTG CAGGAATGAG TGAAGAAA TTTTGTGTG CTTCTGTTT CCAGAAAAGG GAGCCATTT AACAGACACA TCTGTCAAA GAAATGACTT GTCGATAT TCTGGCTAT TTTCTTTATA GCCGAGTTTC TCACACCTGG CGAGCTGTG CATGCTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCTG CTTTAAAGAA ATGAACCTAT GCAAATAGAC ATCCACAGCG TCGGTAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTTG TTGCCAGGT GCAGTGTTT ATGCTGTAA</p>	A	Homo sapiens

Homo sapiens

P

LR116

G Protein-Coupled Receptor 14273

194907

682

TCCAGCAGT TTGGGCTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCG
AGACCAACT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAAATAAA
AAAAAATTA GCTGGGAGTG GTGGTGGGCA CCGTAATCC TAGCTACTTG
GGAGGCTCAA CCACGAGAA CTCTGAACC TGGGAGGCAG AGGTTCAGT
GAGCCGAGT CGTGCCATTG CACTCCAACC AGGCAACAA GAGTGAAACT
CCATCTTAA AAAAAAAA AAAGATTGT TATGGGTTC TTTTAAATGT
GAACTTTTT AGTGTTTGT TATATGATCA AATTATAAT AATTATTT
ATGACTGTTT AGCAAAAAA AAAAAAAA AGGCGCG
MSPECARAAAG DAPLRLEQA NRTRPFSSD VKGDHRLVLA AVETTVLVL
FAVSLGNVC ALVLVARRRR RGATACLVN LFCADLLFIS APLVLAVRW
TEAWLLGPVA CHLLFYVMTL SGSVTILTA AVSLDRMVCV VMLQRGVRC
RRARAVLLA LIWGYSAVA LPLCVFVRV PQLPGADQE ISICTLIWPT
IPGEISWDVS FVTNLFLVPG LVIVISYSKI LQTTKASRKR LTVSLAYSRS HQIRVSQQDF
RLFRITFLLM VSFIMWSPI IDTILLILQ NFKQDLVIWP SLPPWVVAPT FANSALNPIL
YNMTCRNEW KKIFCCTWFP EKGAILTDT VKNRDLISIS G

Homo sapiens

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LR117

G Protein-coupled Receptor Gpcrb4

194908

683

ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVS
SDTYGRDNQQLLGERVARRD ICIAFQETLP TLQPNQNMST EERQLVTIV
DKLQOSTARV VVVFSPDLTL YHFFNEVLQ NFTGAVVIAS ESWAIDPVLH
NLTELHLGT FLGTTIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ
ECDNCLNATL SFNTILRLSG ERVVSYSVA VYAVAHALHS LLGCDKSTCT
KRVVYPWQLL EEIWKVNFTL LDHQFFDPQ GDVALHLEIV QWQWDRSQNP
FQSVASYPL QRQLKNIKTS LHTVNTIPM SMCSCRQCSG QKKKPVGIHV
CCFECIDCLP GTFLNHTCP NNEWSYQSET SCFKRQL VFL EWHEAPTIAV
ALLAALGELS TLAILVIFWR HFQTPIVRSA GGPMLFMLT LLLVAYMVVP
VYVGPVKVST CLCRQALFPL CFTICISCIA VRSFQIVCAF KMASRFPFRAY
SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRTPD DDPKTIIVSC
NPNYRNSLLF NTSLDLLSV VGFSAFYMKG ELPTNYNEAK FITLSMTFYF
TSSVSLCTFM SAYSGVLVTI VDILLVTVLNL LAISLGYFGP KCYMILFYPE
RNTPAYFNSM IQGYTMRDR

Homo sapiens

A

AF380192

Trace Amine Receptor 4 (TA4)

194957

684

atgagcagca attcatocct gctgggtgct gfgcagctgt gctacgcgaa cgtgaatggg tctgtgtga aaatccctt
ctgcgcgga tccgggtga tctgtacat aggtttggc ttggggctg tgcggctgt gttggaaac ctcctgtga tgattcaat
ctccattic aagcagctgc acitocgac caatttctc gtgctctc tggcctgcg tgaattctg gttgggtgtga cttgtgccc
cttcagcatg gtcaggacgg tggagagctg cttgtaattt gggagaggti ttgtacttt ccacactgc tttgtgtgtg catittgtia
ctttctct tttactgt gctcaltc calc-gacagg tacatggcg ttactggcc cctgtgtat cctacacagt tccaccgtalc
tgtgtcagga attgtatca gctgtctctg gactgtccc ctcagtaca gctgtgtgt gttctacaca ggtgtctatg acgattggct
ggaggaattia tctgtgccc taactgtat aggaaggtgt cagaccgttg taatacaaaa cttgggtgtg acagatttct talocctt
talacttacc ttattatga taattctgtia tggtaacata ttctgttg ctagacgaca ggcgaanaag atagaaala cttgtgtcag
gacagaatca tctcagaga gttacaagc cagagtggcc aggaagagaga gaaagacagc laaaacccctg ggggtcacag
tggtagcatt tatgattca tggtaacct atagcatga ttcataatt gattgttatt tgggtttat aaccctgcc tgtattatg
agatttctg tttgtgtgt tatlataact cagccalgaa tctttgatt ttaccatg gtttaggaaa gcaataaag

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttattgtaac tggcagggti ttaagaaca gtcagcaac calgaattg ttictgtaac alataaa</p> <p>MSSNSSLLVA VOLCYANVNG SCVKIPSPG SRVILYIVFG FGAVLAVFGN</p> <p>LLVMISILHF KQLHSPTNFL VASLACADEL VGVTVMPFSM VRTVESCWYF</p> <p>GRSFCTFHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PKFTVSVSG ICISVSWILP</p> <p>LMYSGAVFYT GUYDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT</p> <p>FIMILYGNIFLVARROAKK IENTGSKTES SSESYPKARVA RRRKAAKTL</p> <p>GVTVAFMIS WLPYSIDSLI DAFMGFTPA CIYEICWCWA YNSAMNPLI</p> <p>YALFYPWFRK AIKVVITGQV LKNSSATMNL FSEHI</p> <p>atgaccagca attitccca accgttgtg cagcttgtc atgaggatg gaaagatc tgaatgaaa ctccctatic tccctgggtcc</p> <p>cgggtaatic tgaacagcg gtttagctt gggcttgtc tggcttgtt tggaaatc tgaatgaa ctctgttct tcaatuaag</p> <p>cagctgcaact ctcaaccaa ttctcatt gctctctgg cctgtgtcga ctctgtcga ggtgtgactg tgaatctt cagcatggc</p> <p>aggacgggtgg agagctgtc gtaatttga gcaaatit glacttca cagctgtcgt ggtgtgcat ttigtact ttctgtc</p> <p>cacttgtct tcatgtcat cgacaggatc atgtgttga ctgacctc ggctatgct accaagtca ccgtgtcgt gtcgggaatt</p> <p>tgcacagcg tgcctggat tctgcttc acgtacagcg gtcgttgtt ctacacaggt gcaatgag atgggtgtgga</p> <p>ggaatttga agtgcctca actgcgtagg tggctgtcaa atattgtaa gtaaggtc ggtgtgata gatttgtt tatttctat</p> <p>acctacctt gtaatgaaa ttctttacg taagattt ctatagcta acaacagc tataaaatt gaaactacta gtagcaagt</p> <p>agaalcalcc tcagagagt alaaalcalc agtggccaag agagagagga aagcagctaa aaacctgggg gtcacggtag</p> <p>tagcattgt tatttcalgg ttacctata cagtgtat ataatgat gcttttgg gcttctgac ccttgctat atctatgaa</p> <p>tttgtgtg ggtgtctat tataacag ccatgaatcc ttgtattat gctctatt atcattgt taggaagcc alaaactta</p> <p>tttaagttg agatgtta aaggctagt cataacct tagttatt tgaatata</p> <p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVILYTAFSF GSLLAVFGNL</p> <p>LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFLSMV RTVESCWYFG</p> <p>AKFCTLHSCC DVAFCYSSL HLCFICIDRY IVTVDPLVYA TKFTVSVSGI CISVSWILPL</p> <p>TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWLI DFLFFIPTL VMILYSKIF</p> <p>LIAKQQAUKI ETTSSKVESS SESYKIRVAK RERKAAKTLG VTVLAFVISW LPYTVVDILID</p> <p>AFMGFLTPAY IYEICWCWASAY YNSAMNPLIY ALFYPWFRKA IKLLSGDVL</p> <p>KASSTISLF LE</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>tgcatgtct tcttctct ccatgatala cagctctag tcaagatgt gtaacacca cctcttgtg taitgaatt cctccaccig</p> <p>aaagaaaatt tcagaccag gtaagataa tcaatgggtc caaagccctg gcccggatgag tgggggtgtt tgaacctaa</p> <p>tgtattccc atgtcagcac agaatgtgtg tggcagtaga gtagatgtcag gcttcagagt caacagagac tggatttcaa</p> <p>acttgatttg aggaaccca cctttgttaa gtagattat atctgtgagc ctctgtct ctcttcta aatgagaca gtaaatccca</p> <p>tacggcaggg tgggtggggag aatcagatg atacagctg gtaacatc ctgttgttg ttccaggggg caccagacia</p> <p>gagtttctga gcatgtalcc aaactgtcca gtcctggta caaaatgag accaatcaac ggaatgtgag agactcctg</p> <p>ctacaatcag accgtgagct tcaaggtgtc gactgtcalt atttccctg tggagatgac aggaagcg gtagtgtct</p> <p>ggctcttggg ctac-gcatg cgcagggaacg ctgtctcat ctacatctc aaactggocg cagcagact cctctctc</p> <p>agcttccaga ttatagctc gcatatagc ctalcaata tcaagcaat cctccgcaaa atcctgtt ctgtgagac ctitccctac</p> <p>tttaagggc tgaatgtct gtagcgcalt agcaccagcg gcctgtgtc tgtctgtgg ccactgtgt accgtgtcgg</p> <p>ccggccacca caactgtcag cggctgtgtg tgcctgtc tggggctgt cctctgtt tgaatgtc gtaggtgt tctgtgact</p> <p>cctgtttagt ggtgtgtg ctatgtgtg tgaacgtca gattcalcc cagtgtgtg gctgattt ttatgtgtg ttctgtgt</p> <p>ttccagcctg gtcctgtg tcaagatct ctgtgtgacc cgggaagatg cgtcagcagc gctgtgtg accalccctg</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>tgcatgtct tcttctct ccatgatala cagctctag tcaagatgt gtaacacca cctcttgtg taitgaatt cctccaccig</p> <p>aaagaaaatt tcagaccag gtaagataa tcaatgggtc caaagccctg gcccggatgag tgggggtgtt tgaacctaa</p> <p>tgtattccc atgtcagcac agaatgtgtg tggcagtaga gtagatgtcag gcttcagagt caacagagac tggatttcaa</p> <p>acttgatttg aggaaccca cctttgttaa gtagattat atctgtgagc ctctgtct ctcttcta aatgagaca gtaaatccca</p> <p>tacggcaggg tgggtggggag aatcagatg atacagctg gtaacatc ctgttgttg ttccaggggg caccagacia</p> <p>gagtttctga gcatgtalcc aaactgtcca gtcctggta caaaatgag accaatcaac ggaatgtgag agactcctg</p> <p>ctacaatcag accgtgagct tcaaggtgtc gactgtcalt atttccctg tggagatgac aggaagcg gtagtgtct</p> <p>ggctcttggg ctac-gcatg cgcagggaacg ctgtctcat ctacatctc aaactggocg cagcagact cctctctc</p> <p>agcttccaga ttatagctc gcatatagc ctalcaata tcaagcaat cctccgcaaa atcctgtt ctgtgagac ctitccctac</p> <p>tttaagggc tgaatgtct gtagcgcalt agcaccagcg gcctgtgtc tgtctgtgg ccactgtgt accgtgtcgg</p> <p>ccggccacca caactgtcag cggctgtgtg tgcctgtc tggggctgt cctctgtt tgaatgtc gtaggtgt tctgtgact</p> <p>cctgtttagt ggtgtgtg ctatgtgtg tgaacgtca gattcalcc cagtgtgtg gctgattt ttatgtgtg ttctgtgt</p> <p>ttccagcctg gtcctgtg tcaagatct ctgtgtgacc cgggaagatg cgtcagcagc gctgtgtg accalccctg</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcatgtct tcttctct ccatgatala cagctctag tcaagatgt gtaacacca cctcttgtg taitgaatt cctccaccig</p> <p>aaagaaaatt tcagaccag gtaagataa tcaatgggtc caaagccctg gcccggatgag tgggggtgtt tgaacctaa</p> <p>tgtattccc atgtcagcac agaatgtgtg tggcagtaga gtagatgtcag gcttcagagt caacagagac tggatttcaa</p> <p>acttgatttg aggaaccca cctttgttaa gtagattat atctgtgagc ctctgtct ctcttcta aatgagaca gtaaatccca</p> <p>tacggcaggg tgggtggggag aatcagatg atacagctg gtaacatc ctgttgttg ttccaggggg caccagacia</p> <p>gagtttctga gcatgtalcc aaactgtcca gtcctggta caaaatgag accaatcaac ggaatgtgag agactcctg</p> <p>ctacaatcag accgtgagct tcaaggtgtc gactgtcalt atttccctg tggagatgac aggaagcg gtagtgtct</p> <p>ggctcttggg ctac-gcatg cgcagggaacg ctgtctcat ctacatctc aaactggocg cagcagact cctctctc</p> <p>agcttccaga ttatagctc gcatatagc ctalcaata tcaagcaat cctccgcaaa atcctgtt ctgtgagac ctitccctac</p> <p>tttaagggc tgaatgtct gtagcgcalt agcaccagcg gcctgtgtc tgtctgtgg ccactgtgt accgtgtcgg</p> <p>ccggccacca caactgtcag cggctgtgtg tgcctgtc tggggctgt cctctgtt tgaatgtc gtaggtgt tctgtgact</p> <p>cctgtttagt ggtgtgtg ctatgtgtg tgaacgtca gattcalcc cagtgtgtg gctgattt ttatgtgtg ttctgtgt</p> <p>ttccagcctg gtcctgtg tcaagatct ctgtgtgacc cgggaagatg cgtcagcagc gctgtgtg accalccctg</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	tcacagtgct ggcttctct ctcgcggcc gcccttcgg cactcgggg gccctaatc acaggatgca cctgaattg gaagcttat atgtcatgt ttacttggt tgcattgccc tgcctctct aaacagtagt gccaacoccca tcaattact ctctcgggg tcccttaggc agcgtcaaaa taggcagaac ctgaagctgg ttccocagag agctctgcag gacaagcctg aggtggataa aggtgaaggg cagctctctg aggaagcctt ggaagctgag ggaagcagat tggggccalg agggagagoc tctgocctgt cagtcagacg ggactttgag agcaacacig tcttgccacc ctgacaatt acalgcttt ttcttaggt ttgcctcag aatgctca gggtaact aaggttcca aataatgt tatcaact gacagtga gttttacc atggcaagca ttgctctgac agtacaalg tgg MDPTVPVFGT KLTPINGREE TPCYNQTLST TLTCTISLV GLTGNAVVLW P Homo LLGYMRRNA VSIYLNLA ADFLFSQI IRSPRLINI SHLRKIL VS VMTFPYFTGL sapiens SMLSIASTER CLSVLWPIWY RCRRPTHLSA VVCVLLWGLS LLFSMLEWRF CDFLFGADS SWCETSDFI VAWLFLCVV LCVSSLLV LILCGSRKMP LTRLVVTILL TVLVFLCGL PFGILGALY RMHLNLEVLV CHVYLVCMSL SSLNSSANPI IYFFVGSRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLELGSRL GP atgaacaaca alacaacatg tattaacca tctatgatct ctccatggc ttaccaatc attacatcc tctttgtat tgttggttt ttggaaaca ctctctctca atgatatt ttaacaaaaa taggtaaaaa aacataacg cacatctacc tgcacaact tggactgca aactactg tgcagagtc calgccttc algagatct atttctgaa aggtttccaa tgggaatac aatcagctca atgcagagtg gtcaatttc tgggaactc alccatgcat gcaagtagt tgcagct cttaattta agttggttg ccataagccg ctatgctacc ttaatgcaa aggatctct gcaagagact actcatgct atgagaaaat attttatggc cattactga aaaaattcg ccagoccaa tttgtagaa aactatgcat ttacatagg ggaagttgtac tgggcataat cattocagt accgtatct actcagctat agaggctaca gaaaggagaag agagcctalg ctacaatcgg cagatggac tggagccat gatctctcag atgcaggc tcaitggaa cacatttatt ggaatttct tttagtagt actaacatca tactactct tttaggcca tctgagaaaa atagaacct glactgcat talggagaaa gatttgactt acagttc-igt gaaaagacat ctttgggca tccagattct actaagtt tgcctcttc ctatagtat ttttaaacc atttttatg ttacacca aagagataac tgcagcaat tgaattatt aatagaaaa aaaaacalc tcaactgtct tgcctggcc agaagtagca cagaccccat tatattct ttatagaca aaacattcaa gaagacacta tataatctct ttacaagc taattcagca calatgcaat catatggtg a MNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA P Homo NLLVCSAMPF MSYFLKGFQ WEYQAQCRV VNFLGTLMSH ASMFVSLIL sapiens SWAISRYAT LMQKSSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVGLIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIEL LLDKTFKKTL YNLFTKNSA HMQSYG
690	195015	G Protein- Coupled Receptor GPR82	AF411111	atgaacaaca alacaacatg tattaacca tctatgatct ctccatggc ttaccaatc attacatcc tctttgtat tgttggttt ttggaaaca ctctctctca atgatatt ttaacaaaaa taggtaaaaa aacataacg cacatctacc tgcacaact tggactgca aactactg tgcagagtc calgccttc algagatct atttctgaa aggtttccaa tgggaatac aatcagctca atgcagagtg gtcaatttc tgggaactc alccatgcat gcaagtagt tgcagct cttaattta agttggttg ccataagccg ctatgctacc ttaatgcaa aggatctct gcaagagact actcatgct atgagaaaat attttatggc cattactga aaaaattcg ccagoccaa tttgtagaa aactatgcat ttacatagg ggaagttgtac tgggcataat cattocagt accgtatct actcagctat agaggctaca gaaaggagaag agagcctalg ctacaatcgg cagatggac tggagccat gatctctcag atgcaggc tcaitggaa cacatttatt ggaatttct tttagtagt actaacatca tactactct tttaggcca tctgagaaaa atagaacct glactgcat talggagaaa gatttgactt acagttc-igt gaaaagacat ctttgggca tccagattct actaagtt tgcctcttc ctatagtat ttttaaacc atttttatg ttacacca aagagataac tgcagcaat tgaattatt aatagaaaa aaaaacalc tcaactgtct tgcctggcc agaagtagca cagaccccat tatattct ttatagaca aaacattcaa gaagacacta tataatctct ttacaagc taattcagca calatgcaat catatggtg a MNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA P Homo NLLVCSAMPF MSYFLKGFQ WEYQAQCRV VNFLGTLMSH ASMFVSLIL sapiens SWAISRYAT LMQKSSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVGLIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIEL LLDKTFKKTL YNLFTKNSA HMQSYG
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	atgaacaaca alacaacatg tattaacca tctatgatct ctccatggc ttaccaatc attacatcc tctttgtat tgttggttt ttggaaaca ctctctctca atgatatt ttaacaaaaa taggtaaaaa aacataacg cacatctacc tgcacaact tggactgca aactactg tgcagagtc calgccttc algagatct atttctgaa aggtttccaa tgggaatac aatcagctca atgcagagtg gtcaatttc tgggaactc alccatgcat gcaagtagt tgcagct cttaattta agttggttg ccataagccg ctatgctacc ttaatgcaa aggatctct gcaagagact actcatgct atgagaaaat attttatggc cattactga aaaaattcg ccagoccaa tttgtagaa aactatgcat ttacatagg ggaagttgtac tgggcataat cattocagt accgtatct actcagctat agaggctaca gaaaggagaag agagcctalg ctacaatcgg cagatggac tggagccat gatctctcag atgcaggc tcaitggaa cacatttatt ggaatttct tttagtagt actaacatca tactactct tttaggcca tctgagaaaa atagaacct glactgcat talggagaaa gatttgactt acagttc-igt gaaaagacat ctttgggca tccagattct actaagtt tgcctcttc ctatagtat ttttaaacc atttttatg ttacacca aagagataac tgcagcaat tgaattatt aatagaaaa aaaaacalc tcaactgtct tgcctggcc agaagtagca cagaccccat tatattct ttatagaca aaacattcaa gaagacacta tataatctct ttacaagc taattcagca calatgcaat catatggtg a MNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA P Homo NLLVCSAMPF MSYFLKGFQ WEYQAQCRV VNFLGTLMSH ASMFVSLIL sapiens SWAISRYAT LMQKSSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVGLIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIEL LLDKTFKKTL YNLFTKNSA HMQSYG

SEQ ID	LSID	Gene	Source ID	Sequence	Code	Species
NO:					Name	
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aacaccacat caccaccggc tccctttgag accggcgga acactactgg tatctccgac gtgaccgta gctaccaagt gatcacctct ctgtctgg gcactctcat ctctgcgc gtgctggga atgctgggt ggtggctgcc atgacctgg agcgtccct gcagaacgtg gccaatatc ttattggctc ttggcggtc accgacctca tgggtcggt gtgtgtgtg ccatatcgc cgctgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcacg cctcgacgt gctgtgctgc acctcatcca tcttgacct gtgcgcac gtgctggaca ggtactggc catcacggac cccatcgact acgtgaacaa gaggacgccc cggccgctg cgtcatctc gctcacttgg cttattggct tctctatctc tatccgccc atcctgggt ggcgacccc ggaagaccgc tcggacccc agcgtatcac cattagcaag gatcatgct acatatcta ttccacctt ggagcttct acatccgct gctgtcatg ctggttctct atggcgcat attccgagct gcgccttcc gcaccgcaa gacgttcaaa aaggtggaga agcggagc ggacaccgc catggagcat ctcccgccc gcagcccaa aagagtgtga atggagagc gggagcagg aactggaggc tggcggtgga gagcaaggct ggggtgtctc tgtgcgcaa tggcgcggtg aggcaagggt acgatggcg cgcctggag gtgatcgagg tgcaccagt gggcaactcc aaagagcact tgcctctgcc cagcgagct ggtcctacc cttgtgccc cgcctcttc gagagaaaa atgagcgcaa cgcggagcg aagcgcaaga tggccttgc ccgagagagg aagacagtga agacgtggg catcatcatg ggcacctca tctctgtg gctgcccctc ttcatcgtgg ctctgttct ccccttctgc gagacagct gccacatgc caccctgtg ggcgccataa tcaattggct gggctactcc aactctctgc ttaaccccg catttacgca tacttcaaca aggacttca aaacgcttt aagaagatca ttaagtgtaa cttctgcgc cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSPGQN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGTLIFCA VLGNACVVAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMAALYQVLN KWTLGQVTCDF LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RPRALISLTV LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLLM LVLYGRIFRA ARFIRKTVK KVEKTGADTR HGASPAQPK KSVNGESGR NWRLGVESKA GGALCANGAV RQDDGAALE VIEVHRVGN KEHLPSEA GPTPCAPASF ERKNERNAEA KROMALARER KTVKTLGIM GTFILCWLPE FIVALVLPFC ESSCHMPTLL GAIINWLGYS NSLLNPVIYA YFNKDFQNAF KKIICNFCE Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaa cgggtgtgtca gtgcgctcca cgcgcgcgcg cgggctccga gacctgggtt cctcaagcca acttatactc tgcctcctcc caaaactgca gcgcaagga ctacatttac caggactcca tctccctacc ctggaagta ctgctgttga tgcattggc gctcatcacc ttggccacca cgctctccaa tgcctttgtg attgccacag tgcacggac cggaaactg cacaccccg ctaactacct gatgcctct ctggcggtca cggacctgt tgtgtccatc ctggtgatgc ccatacgac catgtacat gtcacggcc gctggacat gggccaggtg gtctgtgact tctggctgtc gtcggacatc acttgttga ctgcctccat cctgcacctc tgtgtcatcg cctgggaccg ctactgggc atcacggag cgtggagta ctacgctaaa aggactccca agaggcggc ggtcatgatc gcgctgtgt ggtctcttc catctctatc	A	Homo sapiens

4	128	5-HT1B Receptor	NP_000854.1	<p>tgcgtgccgc ccttctctg gcgtcaggct aaggccgaag aggagggtgc ggaatgcgtg gtgaacacg accacatcct ctacacggct tactcacgg tgggtgcttt ctactcccc acctgctcc tcatggccct ctatggccgc atctagtag aagcccgctc ccgattttg aaacagacgc ccaacaggac cggcaagcgc ttgaccggag ccagctgat aaccgactcc cccggtcca cgtctcggg cactctatt aactcgagg ttcccgact gcccagcgaa tcgggatctc ctgtgtatgt gaaccaagtc aaagtgcgag tctcggacgc cctgctggaa aagaagaaac tcatggccgc tagggagcgc aaagccacca agaccctagg gatcattttg ggagccttta ttgtgtgtg gctacccttc ttcatcatct ccctagtag gcctatctgc aaagatgcct gctggttcca cctagccatc ttgactctt tcacatggct gggctatctc aactccctca tcaaccccat aatctatacc atgtccaatg aggactttta acaagcattc cataaactga tacgttttaa gtgcacaagt tga</p>	Homo sapiens
5	129	5-HT1D Receptor	NM_000864	<p>agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A gtcagcagaa ggccttcccc aggagcctc caacagatcc ctgaatgcca cagaaacctc agagcttgg gatccaggga cctccaggc tgccttgctc tcccttgccg tggctcttc cgtcatcaca ctggccacag tccctccaa tcccttgta tccaccacca tcttactcac caggaagctc cacacccctc ccaactacct gattggctcc ctggccacca cgcacctctt ggtttccatc ttggtaatgc ccatcagcat cgcctatacc atcacccaca cctggaaactt tgccccaaatc ttgtgtgaca tctggctgtc ctctgacatc acgtgctgca cagcctccat cctgcatctc tgtgtcatg ctctggacag gtactgggca atcacagatg ccctggaata cagtaaacgc aggaacgctg gccacgggc caccatgac gccattgtct gggccatctc catctgcatc tccatcccc cgtcttctg gcggcaggcc aagcccagg aggagatgtc ggactgtctg gtgaacacct ctcatatct atctagcctg tactccacct gtgggacctt ctacattccc tcggtgtgct tcatcatct atctagcctg atctacccgg ctgcccggaa ccgcatctct aatccacct cactctatg gaagcgtct accacggcc acctcatcac aggctctgcc gggtctctgc tctgctcgt caactccagc ctccatgagg ggcactcgca ctcggctggc tccccctct ttttcaacca cgtgaaaaatc aagcttgctg acagtgcctt ggaacgcaag aggatctctg ctgctcgaga aaggaagcc actaaaatcc tgggcatcat tctgggggcc ttatcatct ctgtgctgga cttctctgtg gtgtctctgg tctcccatc ctgcccggac tctgctgga tccaccggc gctcttgga tcttccacct ggtaggcta tttaaaactc ctcatcaat caataatcta cactgtgtt aatgaagat ttcggcaagc ttttcagaaa attgtccct tccggaagc ctcctagct tatcgtatg ggtaaaagaa msplnqsaeg lpoqasnrl natetsewd prtloalkis lavlsvitl atvlsnafvl P ttilltrklh tpnyllgsl attdllvsil vmpisiayti thtwnfgqil cdiwlsddit cctasilihlc vialdrywai tdaleyskrr taghaatmia iwaaisicis ipplfwrqak</p>	Homo sapiens
6	129	5-HT1D Receptor	NP_000855.1	<p>msplnqsaeg lpoqasnrl natetsewd prtloalkis lavlsvitl atvlsnafvl P ttilltrklh tpnyllgsl attdllvsil vmpisiayti thtwnfgqil cdiwlsddit cctasilihlc vialdrywai tdaleyskrr taghaatmia iwaaisicis ipplfwrqak</p>	Homo sapiens

7	130	5-HT1E Receptor	NM_000865	<p> AQEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGRH YRAARNRIIN PPSLYGKRFT TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVVIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPEFV SLVLPICRDS CWIHPALDFE FTWLGYLNSL INPIIYTVFN EEFRQAFQKI VPFERKAS atcgatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttccg A agtgagactt ctgagctcag ctggagctgc cgggttggcc agtcggcgc gcgtgcacgc accgtccaca agagtctcag tcgcccaggc tggagtgcag cagcacagtc tcacctcatt gaaactccg actcccggtt tcgcggttcc tccgcctcag ctccctagta gctgggattg caggcaactca ccacctgccc cggctaattt ttgaaattt tagtggagac gggatttcac catgttgccc atgtgtgtct tgaacccccg acctcgatg attcgccccg ctcgccctcc caaagtgcgt gaattacagg cgaaccttca ctcagaagaa atgctgtggc ccttcccttt accaacagaa aatggaacac aagagaccac atagctgaac aaattatagc ctccctacaa gtgagaaacc ttgagagcta catagtcttc agccaaagga aataaccaa cagcttctcc acagtgtaga ctgaacaag gaaacatga acatcacaaa ctgtaccaca gagccagca tggctataag acccaagacc atcaactaga agatgctcat ttgcatgact tgggtgtca tcaccacct caccacgttg ctgaacttgg ctgtgatcat ggctattggc accaccaaga agctccacca gctgccaac tacctaactc gtctctggc cgtgacggac ctctgtgtgg cagtgtcgt catgccccgt agcatcatct acattgtcat ggatcgtgg aagcttgggt acctctctg tgaggtgtgg ctgagtgagg acatgacctg ctgcacctgc tccatctccc acctctgtgt cattgccccg gacagtgact gggccatcag caatgctatt gaatacgca ggaagaggac ggcgaagagg gccgcgtga tgatccttac cgtctggacc atctccattt tcactctcat gccccctctg ttctggagaa gccaccgccc cctaagccct ccccctagtc agtgcacct ccagcacgac catgttatct acaccattta ctccacgtg ggtgcgtttt atatccctt gactttgata ctgattctct attaccggat ttaccacgg gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt ctttggaaag ttgtaaactt acacagactt ccatcaggat ccccccttc gacaaatgatc ctaccacaga gttgaaaag ttccatgctt ctgacaccag ggaacggaag gcagcacgca tagatcacc aggagaacgt cagcagatct tatcctggct gccatttttc atcaaaagagt tcctggggct gattctgggt gcattcattt cctcggaagt ggcgacttt ctgacgtggc tgatttggg tctgagcact tacaccgtgt cgtctctac gagttttaa gaagacttta tcggttatgt gaattctctg atcaacctc tgctctatc gagttttaa gaagacttta agctggcttt taaaaagctc attagatgcc gagagcatac ttgactgta aaaaagctaaa aggcacgact tttccagag cctcatgagt ggatgggggt aaggggtgca acttattaat ccttgaacat acttggttca ggagagtttg taagtatgt tggcttctgt tcttctgttg tttgttgggt ttgttctgtt ttgttgagg attgtattt ggcgtgctgt tttctacctc tggctctatc tgtgatacat aattcaaat aaacattatc atcaaaaac aaaaaaaa aaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> MNITNCTTEA SMAIRPRTIT EKMLICMTLV VITLTLTLN LAVIMAIGTT KKLHQPANYL P ICSLAVTDLL VAVLVMPLSI IYIVMDRWKL GYFLCEVWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTWTIS IFISMPPLFW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKH ASIRIPFDN DLDPGERQQ ISSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGYNLSLIN PLYTSFNEF FKLAFFKLIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatcaaaa ttctgtgtgc cctcaactctg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctgc aattattgtg acccggaagc tgcaccatcc agccaattat ttaaattgtt ccttgcatc cacagatttt cttgtggctg tcccttgat gcccttcagc attgtgtata ttgtgagaga gagctggatt atggggcaag tggctgtga catttggctg agtgttgaca ttacctgtcg cactgctcc atcttgcatc tctcagctat agctttggat cggatcagag caatcacaga tgctgttgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctattc tggaggcacc aaggaactag cagagatgat gaatgcata tcaagcacga ccacattgtt tccaccattt actcaacatt tggagctttc tacatccac tggcattgat ttgtatcctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaagc aagtaggatt gcaaaggagg agtggaatgg ccaagtcctt ttggagagtg gtgagaaaag cactaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaagag tctcaggtct gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa gcagccacta ccctgggatt aatcttgggt gcatttgtaa tatgttggtt tccctttttt gtaaaagaat tagttgttaa tgtctgtgac aaatgtaaaa ttcttggaaga aatgtccaat tttttggcat ggcctgggta tctcaattcc cttataaatc cactgatatta cacaaatctt aatgaagact tcaagaaagc attccaaaaa cttgctgcat gtcgatgtta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSSDQN LTSEELNRM PSKILVSLTL SGLALMTTII NSLVIAAIV TRKLHPANY P LICSLAVTDF LVAVLMPFS IVYIVRESWI MGQVCDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECIKHDHIV STIYSTFGAF YIPLALIL YKIYRAAKT LYHKRQASRI AKEVNGQVL LESGEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSLSR EFKHEKSWRR QKISGTRERK AATTLGLILG AFVICWLPPF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDEKKAFOK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtggaat ggtgagcaga aactataacc tgttagtctt tctacacctc atctgctaca agttctggct tagacatgga tattctttgt gaagaaaata cttctttgag ctcaactacg aactccctaa ttcaattaaa tgatgacacc aggcctctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtgcagt ctgaaaatcg aaccacattt tctgtggaag ggtgcctctc accgtcgtgt ctctccttac tctatctcca ggaaaaaac tggctgctct tactgacagc cgtagtgtatt attctaacta ttgctggaaa catactctgc atcatggcag tgtccctaga gaaaagctg cagaatgcca ccaactattt cctgatgtca cttgccatag ctgatatgct gctgggtttc cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagcttttgg cagctctggat ttacctggac gtgctcttct ccacggcctc catcatgcac ctctcgcca tctcgctgga ccgctacgtc gccatccaga atcccatcca ccacagcgc ttcaactcca gaactaaggc</p>	Homo sapiens

12	5-HT2A Receptor	NP_000612.1	MDILCENTS LSSTNSLMQ LNDTRLYSN DENSGEANTS DAFNWTVDSE NRTNLSCEG P	Homo sapiens
132			LSPSCLSLH LQEKNSALL TAVVIILTIA GNILVIMAVS LEKKLQATN YFLMSLAID	
attctgaaa atcattgtgtg ttggaccat atcagtaggt atatccatgc caataccagt ctttgggcta caggacgatt cgaaggtctt taaggagggt agttgcttac tcgccgatga taactttgtc ctgateggt cttttgtgtc atttttcatt cccttaacca tcatggtgat cacctacttt ctaactatca agtcactcca gaaagaagct actttgtgtg taagtgatct tggcacacgg gccaaattag cttctttcag gctctccct cagagttctt tgtcttcaga aaagctcttc cagcgggtcga tccataggga gccagggtcc tacacaggca ggaggactat gcagtccatc agcaatgagc aaaggcagtg caagggtgtg ggcacgtctc tttccctgtt tgtgtgatg tgggtgacct tcttcacac aacatcatg gccgtcatc gcaaagagtc ctgcaatgag gatgtcattg gggccctgtc caatgtgtt gtttggatg gttatctctc ttcagcagtc aaccactag tctacacact gttcaacaag acctataggt cagccttttc acggtatatt cagtgtcagt caaggaaaa caaaaaacca ttgcagttaa ttttagtgaa cacaataccg gctttggcct caaggtctag ccaacttcaa atgggacaaa aaaagaattc aaagcaagat gccaaagcaa cagataatga ctgctcaatg gttgctctag gaaagcagca ttctgaagag gcttctaag acaatagcga cggagtgaat gaaaagggtg gctgtgtgtg ataggctagt tgccgtggca actgtggaag gcacactgag caagttttca cctatctgga aaaaaaaat atgagattgg aaaaaattag caagctctag tggaaaccaac gatcatatct gtatgctca ttttattctg tcaatgaaaa gcggggttca atgctacaaa atgtgtgtct ggaaaatgtt ctgacagcat ttacgtgtg agctttctga tacttattta taacattgta aatgatatgt ctttaaaatg attcactttt atgtataat tatgaagccc taagtaaatc taaattaact tctattttca agtggaaacc ttgctgtctat gctgttctat gatgacatgg gattgagttg gttacctatt gccgtaaata aaaacttact atggtatata ttttgaaggg gaatataatg gcctcttaaa aattatctt aaaaacttact atggtatata ttttgaaggg agaaaaaaa aaagccacta aggtcagtgt tataaaatct gtattgtctaa gataattaaa tgaaataactt gacaacattt ttcatagata ccattttgaa atattcaciaa ggttgcgtggc atttgcgtgca tttcaagtta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa ctattgtgc ttctcttct acttctgtg ctttactctg aatttccagt gtggtcttgt ttaatatbtg ttcccttagg taaactagca aaaggatgat ttaacattac caaatgcctt tctagcaatt gcttctctaa aacagcacta tcgaggtatt tggtaacttg ctgtgaaatg actgcatcat gcctgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcagga tgaggatga actcaggttt ccggctactg acagtggtag agtcctagga catctctgta aaaagcaggt gactttccta tgacactcat caggtaaact gatgctttca gatccatcgg tttatactat ttattaaaac cattctgctt ggttccacaa tcatctattg agtgtacatt tatgtgtgaa gcaaatctt agatatgaga aatataaaaa taattaaaaa aaatccttg ccttcaaacg aaatggctcg gccaggcagc gagggttggt catgtaatcc tagcactttg ggaggctgag atgggaggt cacttgagc caggagtttg agaccaacct gggtaacaaa gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgatcctt gtggcacaca actgtgtccc cagctacagg ggaggctgag acgcaaggat cacttgagcc cagaagctca aggctgcagt gagccaagt cacaccactg ccatttctc ctgggcaaca gagtgaagcc ctatcacccc gaattc				

13	5-HT2B Receptor	NM_000867	<p>MLLGLFVMPV SMLTILYGYR WPLPSKLCV WLYLDVLFST ASIMHLCAIS LDYVAIQNP</p> <p>IHHSRENSRT KAFKLIIVW TISVGISMPI PVFGLQDDSK VFKEGSCILLA DDFVLIGSF</p> <p>VSFIFLITIM VITYFLTIKS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLFQRSIH</p> <p>REPGSYTGRR TMOISNEQK ACKVLGIVFF LFVVMCPFF ITNIMAVICK ESCNEDVIGA</p> <p>LLNVFWIGY LSSAVNPLVY TLFNKTYRSA FSRYIQSQYK ENKKPLQLIL VNTIPALAYK</p> <p>SSQLQMGQKK NSKQDAKTTD NDCSMVALGK QHSEEAQDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gttcggaacg ggattgaatc acagaaaaac agcaaatggc A</p> <p>tctcttttac agagtgtctg aacttcaag cacaattcct gagcacattt tgcagagcac</p> <p>ctttgttcaac gttatctctt ctaactggctc tggattacag acagaatcaa taccagagga</p> <p>aatgaaacag attgttgagg aacagggaac taaactgcac tgggcagctc tcttgatact</p> <p>catggtgata ataccacaa ttggtggaaa taccctgtt tctaatgtcc ttggcgggtg ctgatttgc</p> <p>gaagaagctg cagtatgcta ctaattactt cttgacaata atgtttgagg ctatgtggcc</p> <p>ggttgagattg ttgtgatgc caattggcct ttctttgac ttctctttt caaccgcac</p> <p>cctccactt gttctatgtc ctgctgggtt attcttgac ttctctttt caaccgcac</p> <p>catcatgcat ctctgtgcca ttctagtgga tctgtacata gccatcaaaa agcacaatcca</p> <p>ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtggttaat</p> <p>ttcaataggc attgccattc cagtccttat taaagggata gagactgatg tggacaaacc</p> <p>aaacaatc acctgtgtgc tgacaaaagga acgttttggc gatttcacgc tctttggctc</p> <p>actggctgcc ttcttcacac ctcttgcaat tatgattgtc acctactttc tcactatcca</p> <p>tgttttacag aagaaggctt acttagtcaa aaacaagcca cctcaagcc taacatgggt</p> <p>gactgtgtct acagttttcc aaaggatga aacaccttc tctgcacgg aaaagtggtg</p> <p>aatgtggat ggttctcgaa aggacaagc tctgcccac tcaggtgatg aaacacttat</p> <p>gcgaagaaca tccacaattg ggaaaaagtc agtgcagacc atttccacg aacagagagc</p> <p>ctcaaggctc ctagggttg tgttttctt ctttttggct atgtgtgtc cttcttttat</p> <p>tacaaatata actttagttt tatgtgattc ctgtaaccaa actactctcc aatgctcct</p> <p>ggagataatt gtgtggatag gctatgttc ctgaggagt aatcctttg tctacacct</p> <p>cttcaataag acatttcggg atgcatttg ccgatatatc acctgcaatt accgggccc</p> <p>aaagtcaagta aaaactctca gaaaacgctc cagtaagatc tacttccgga atccaatggc</p> <p>agagaactct aagtttttca agaaacatgg aattcgaaat gggattaaac ctgccatgta</p> <p>ccagagtcca atgaggctcc gaagttcaac cattcagctc tcatcaatca ttctactaga</p> <p>tacgctctc ctactgaaa atgaagtgga caaaactgaa gagcaagta gttatgtata</p> <p>gcagaactgg cagttgtcat caaacataat gatgagtaag atgatgaatg agatgtaaat</p> <p>gtgcccagaa tatattatat aaagaatttt ctgtacata tcaaatcatc tctttaacct</p> <p>aagatgaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga</p> <p>aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaagta</p> <p>ttcgaatgaa ataaagctca atcaataaat ttcaggcttt aaaaaaaa</p>	Homo sapiens
14	5-HT2B Receptor	NP_000858.1	<p>MALSYRVSEL QSTIPEHILQ STFVHVISN WSGLQTESIP EEMKQIVEEQ GNKLHWAALL P</p> <p>ILMVIITIG GNTLVILAVS LEKKLQYATN YFLMSLAVAD LVLGLFVMPI ALLTIMFEAM</p> <p>WPLPLVLCPA WLFLDVLFT ASIMHLCAIS VDRYIAIKK IQANQYNSRA TAFIKITVW</p> <p>LISIGIAIPV PIKGIETDVD NPNNITCVLT KERFGDFMLF GSLAAFFTPL AIMIVTYFLT</p> <p>IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

15	134	5-HT2C Receptor	nm_000868	LMRRTSTIGK KSVQTISNEQ RASKVLGIVF FLFLMMCPFF FITNITVLVC DSCNQTTLQM LLEIFWIGY VSSGVNPLVY TLENKTRDA FGRIYTCNRYR ATKSVTLRK RSSKIYFRNP MAENSKFFKK HGIRNGINPA MYQSPMRLRS STIQSSSILL LDLLLLTENE GDKTEEQVSY V	accgcgcga ggtaggcgt ctggtgcttg cggaggaagcgc ttcttctctc agatgcacccg A atcttcccca tactgccttt ggaggggcta gattgtagc ctggtctgctc cctatggcct gccttgcccc ttacctgccc attgcataag aactctctt ctgctctgtac atcgttgctg tcggagtcgt cgcgatacgc gtggcgctcg tgtgatggcc ttgctccgtt tagagtagtg tagttagtta ggggccaacg aagaagaaag aagacgcat tagtgacagag atgctggagg tggtcagtta ctaagctaga gtaagatagc ggagcgaata gagccaaacc tagccggggg ggcacaggtc acccaaggga ggtcgactcg ccggcgcttc ctatcgcgcc gagctccctc cattctctc cctcgcgcga ggcgcgaggt tgcggcgccg agcgacgagc agctcagcgc accgactgcc gcgggctccc ctggcgaggt gcagccgagt ccgcttctcg tctagctgcc gccgcggcga ccgctgctcg gtcttctcc cggacgtag tgggttatca gctaacaccc gcgagcatct ataacatagg ccaactgacg ccctctctca aaaaactca aaggatgata tgatgaacct agcctgttaa ttctgtctc tcaatttaa actttggtt ctaagactg aagcaatcat ggtgaacctg aggaatgcgg tgcattcatt ccttggtcac ctaattggcc tattggtttg gcaatgtgat atttcttga gcccgtagc agctatagta actgacattt tcaatacctc cgatggtgga cgcttcaat tcccagcgg ggtacaaaac tggccagcac ttcaatcgt catcataata atcatgacaa taggtggcaa tcccttggtg atcatggcag taagcatgga aaagaactg cacaatgcca ccaattact cttaattgcc ctgaccattg ctgatatgct agtgggacta ctgttcagc cctgtctct cctggcaatc ctttatgatt atgtctggcc actacataga tatttggcc ccgctggat ttctttagat gttttattt caacagcgtc catcatgcac ctctgcgta tatcgctgga tcggtatgta gcaatacgt atcctattga gcatagccgt ttcaattgc ggactaagg catcatgaag attgctattg tttgggcaat ttctataggt gtatcagttc ctatccctgt gattggactg agggacgaag aaaaggtggt cgtgaacaac acgacgtgcg tgcatacga ccaaatctt gttcttattg ggtccttcgt agctttctc ataccgtga cgattatgt gattacgtat tgcctgacca tctacgttct gcgcgcgaca gctttgatgt tactgcacgg ccacaccgag gaaccgcctg gactaagtct ggatttctg aagtgcctga agaggaatac ggccgaggaa gagaactctg caaacctaa ccaagaccag aacgcacgc gaagaaagaa gaaggagaga cgtcctaggg gcaccatgca ggctatcaac aatgaaagaa agcttcgaa agtccctggg attgtttct ttgtgttct gatcatgtg tgcctattt tcatcacaa tattctgtct gttcttggg agaagtcctg taacccaaa ctcctggaaa agctctgaa tgtgtttgtt tggattggct atgtttgttc aggaatcaat cctctgggtg atactctgt caacaaaatt taccgaagg cattctccaa ctatttggt tgcaattata agtagagaa aaagcctcct tcagggcaga ttccaaagt tgcgcacct gctttgtctg ggaggagct taatgttaac atttatcggc ataccaatga accggtgatc gagaaagcca gtgacaaatga gcccggtata gagatgcaag ttgagaattt agagttacca gtaaatccct ccagtggtgt tagcgaaagg attagcagt tgtgagaag aacagcacag tcttttctta cggtaacaag tacatatgta ggaatttt cttctttaat ttttctgttg gtcttaacta atgtaaatat tgctgtctga aaaagtgtt	Homo sapiens
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tattatata gtatatctgt gtaagacacg tgcaacagac tgccttatat tatttctgt
aatctctctc cttgtcaaaa tggatatttt tggtaagtgt tgcaagtgt tgtcttattc

16	134	5-HT2C Receptor	NP_000859.1	ctaatccctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatgt tgaaaaaaa aaaaaaaaaa aaaa VIIIIMTIGG NILVMAVSM EKKLNATNY FLMSLAIDM AAIVTDIFNT SDGGRFKFPD GVQNPALSI P PLPRYLCPW ISLDVLFSTA SIMHLCAISL DRYVAIRNPI EHSRENSRTK AIMKIAIYVA ISIGVSVPIP VIGLRDEEKV FVNNTTCVLN DNFVPLTISF VAFFIPLTIM VITYCLTIYV LRRQALMLLH GHTEEPPLGS LDFLKCKCRN TAEENSANP NQDQNRARRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFFIT NILSVLCEKS CNQKLMEKLL NVFVWIGYVC SGINPLVYTL FNKIYRRAPS NYLRNRYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSV VSERISSV cggtgcttat ttcctgtaat ggacaaactt gatgctaag tgagttctga ggagggtttc A gggtcagtg gaaaggtggt gctgctcacg tttctctga cggttatcct gatggccatc ttggggaacc tgctggtgat ggtggctgtg tgctgggaca ggcagctcag gaaaataaaa acaaattatt tcattgtatc tcttgctttt gctggtctgc tggttcggt gtttgcgtg cccttggtg ccattgagct ggttcaagac atctgattt atggggaggt gtttgcgt gttggacat ctctggacgt cctgctcaca acggcatcga ttttccacct gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcgca tcgcattaat gctgggaggg tgctgggtca tccccacgtt tatttctttt ctccctataa tgcaagctg gaataacatt ggcataatg attgataga aaagaggaag ttcaaccaga actctaactc tacgtactgt gtcttcattg tcaacaagcc ctacgccatc acctgctctg tgggtggcctt ctacatccca tttctcctca tgggtcgtgc ctattaccg atctatgtca cagctaagga gcatgccat cagatccaga tgttacaag ggcaggagcc tctccgaga gcaggcctca gtcggcagac cagcatagca ctcatgcat gaggacagag accaaagcag ccaagacct gtgcatcacc atgggttct tctgctctg ctgggacca ttctttgtca ccaatattgt ggtccttctc atagactaca ctgtccctgg gcagggtggtg actgcttcc tctggctcgg ctatatcaat tccgggttga accttttct ctacgcttc ttgaataagt cttttagacg tgccttctc atcatcctct gctgtgatga tgagcgtac cgaagacctt ccattctggg ccagactgtc ccttgttcaa ccacaacct taatggatcc acacatgtac taagggatgc agtgagtggt ggtggccagt gggagagtca gtgtcacccg ccagcaactt ctctcttggt ggtgctcag cccagtga cttaggcccc tgggacaatg acccagaaga cagccatgcc tccgaaagag ggcagggtcc taagctgctg cttgtgcgcg actgcacccg gcattctctt cactgaggg tttccgtccg ccagtgcagg aacccggtgc tcgctggg	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	SLAFADLIVS VLVMPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTTASIFH LCCISLDRY P AICQPLVYR NKMTPLRIAL MLGCGWVPT FISFLPIMQG WNNIGIIDLI EKKFNQNSN STYCVFVNK PYAITCSVA FYIPFLMVL AYRIYVTAK EHAHQIOMLO RAGASSESRP QADQHSRTHR MRTETKRAKT LCIIIMGCFCL CWAPFFVTNI VDPFIDYTPV GQVWTAFLWL GYINSGLNPF LYAFLNKSFR RAFLIILCCD DERYYRPSIL GQTVPCSTTT INGSTHVLRD AVECGGQWES QCHPPATSPL VAAQPSDT cccagagcgc cccattcacc ccctcacc acctccccg gttcccactt ccccgactc A	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	SLAFADLIVS VLVMPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTTASIFH LCCISLDRY P AICQPLVYR NKMTPLRIAL MLGCGWVPT FISFLPIMQG WNNIGIIDLI EKKFNQNSN STYCVFVNK PYAITCSVA FYIPFLMVL AYRIYVTAK EHAHQIOMLO RAGASSESRP QADQHSRTHR MRTETKRAKT LCIIIMGCFCL CWAPFFVTNI VDPFIDYTPV GQVWTAFLWL GYINSGLNPF LYAFLNKSFR RAFLIILCCD DERYYRPSIL GQTVPCSTTT INGSTHVLRD AVECGGQWES QCHPPATSPL VAAQPSDT cccagagcgc cccattcacc ccctcacc acctccccg gttcccactt ccccgactc A	Homo sapiens
19	138	5-HT6	NM_000871	cccagagcgc cccattcacc ccctcacc acctccccg gttcccactt ccccgactc A	Homo

21	139	5-HT7 Receptor	NM_000872	<p>ccatgggag cggcacacgg cggcgcatg atggacgtta acagcaggg cgcggcgac A</p> <p>ctctacgggc acctcgctc ttctctctg ccagaagtgg ggcgcggtct gccgacttg</p> <p>agccccagc gtggcgccga cccgtcgcg ggtctctggg cgcgcacct gctgagcgag</p> <p>gtgacagcca gcccggcgcc cacctgggac ggcggcgccg acaatgcctc cggctgtggg</p> <p>gaacagatca actacggcag agtcgagaaa gtgtgatcg ggtccatctt gacgtctc</p> <p>acgtgtctga cgtacgggg caactgcctg gtggatctt cgtgtgctt cgtcaagaag</p> <p>ctccggcagc cctccaaacta cctgatctg tcctggcg cggcgacct ctcgggtgctt</p> <p>gtggcggtca tgcctctctg cagcgctacc gacctcag gggcgaagt gatctttgga</p> <p>cacttttct gtaatgtctt catcgccatg gacgtcatgt gctgcacgc ctcgatcatg</p> <p>acctgtgcy tgatcagcat tgacaggtac cttgggatca caaggcccc cacaacct</p> <p>gtgaggcaga atgggaaatg catggcgaag atgattctt cgtctggtt tctctccgc</p> <p>tccatcacct tacctccact cttgggatg gctcagaatg taaatgatga taagggtg</p> <p>ttgatcagcc aggaatttgg ctatacgatt tactctaccg cagtggcatt ttatatccc</p> <p>atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccagaa gattgctgc</p> <p>aaacacaagt ttcctggctt cctcagatg gagccagaca cgtcatcgc cctgaatggc</p> <p>atagtgaagc tccagaagga ggtggaag ggtgcaaac ttctgagact cctcaagcat</p> <p>gaaaggaaaa acatctccat ctttaagcga gaacagaaag cagccaccac cctggggatc</p> <p>atcgtcggg cctttacgt gtgctggctg ccattttcc tctctcgac agccagacc</p> <p>ttcatctgtg gcaattctg cagctgcac ttatatatg ccttcttcaa ccgggacctg</p> <p>ctaggctatg caactctct cattaacctt ttatatatg ccttcttcaa ccgggacctg</p> <p>aggaccacct atcgcagct cctccagtc cagtaccgga atatcaacc gaagctctca</p> <p>gctgcaggca tgcataagc cctgaagctt gctgagagg cagagagacc tgagtttgtg</p> <p>ctacaaaatg ctgactactg tagaaaaaa ggtcatgatt catgattgaa agcagaacaa</p> <p>tgag</p>	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	<p>DAPPDNAGC GEQINYGRVE KVVIGSILT LSPDGGADPV AGSWAPHLLS EVTASPAPTW P</p> <p>VSLALADLSV AVAVMPFVSF TDLLGGKWF GHFFCNVFA MDVNCCTASI MTLCVISIDR</p> <p>YLGITRPLTY PVRQNGKMA KMILSVWLLS ASITLPLFG WAQNVNDDKV CLISQDEGYT</p> <p>IYSTAVAFYI PMSVLMFYI QIYKAARSA AKHKEPGFPR VEPDSVIALN GIVKLOKEVE</p> <p>ECANLSRLK HERKNISIFK REQKAATLG IIVGAFVWV LPFFLLSTAR PFICGTSCSC</p> <p>IPLWVERTFL WLGYANSLN PFIYAFNRD LRTTYSLLQ CQYRNINRKL SAAGMHEALK</p> <p>LAERPERPEF VLQADYCRK KGHDS</p> <p>atgagtgtca gaagtgtgaa ggtgacctg tctgaatccc agagcctcct ctcctctgt A</p> <p>gaggtgtgca ggtgaggaag ggtttaacct cactggaag aatccctgga gctagcggt</p> <p>gctgaaggcg tctgaggtgtg gggcacttg gacagaacag tcaggcagcc gggagctctg</p> <p>ccagctttgg tgaccttgg cgggctggg agcgctcgg cgggagccgg aggactatga</p> <p>gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc</p> <p>cctggaactt tgggactgc cctgggacc cctgcggcc agcaggcagg atggtgctt</p> <p>cctcgtgccc cttggtgccc gtctgctgat gtgcccagcc tgtgcccgc atgccgcc</p> <p>ccatctcagc ttccaggcc gctacatcg gctcagagt gctcagcc cttgctctg</p> <p>tgccccgggaa cgtgctggtg atctggcggtg tgaaggtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674		Homo sapiens

ccttctgctt catcgtgtcg ctggcggtgg ctgatgtggc cgtgggtgccc ctggtcatcc
 cctcgcacat cctcatcaac attggccac agacctactt ccacacctgc ctcattggtg
 cctgtccggt cctcatcctc acccagagct ccatactggc cctgtggcca attgctgtgg
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 agtactatgg gaaggagctg aagatcgcca agtgcgtggc cctcatctc tctctctt
 cctcagctg gctgccttgg cacatctca actgcatac cctctctgc cgtctctgccc
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 gttggtggtg cagccccagg accaaagctta aggagaggag agcatctgct ctgagacgga
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 cataccaggt gctagggtgc ctgctctctt tgcctgggc cagccaggga ttgtactgtg
 gagaggcaga aagggtaggt tcagtaata tttctgatga tttgctggag tctggtctcc
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 gctctgagcc ctctctctg ccttagctt tccggggagg agcctgagt gtaattacct
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 tgagagcatg tgggggaagg ccttgctgc atgtgaatcc ctcaatccc ctagtatctg
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 aataaaaaac tgtgaacctt

Homo

P

RDATCFIVS

LAVADVAVGA

P

LVSVPGNVLV

IWAVKVNQAL

RDATCFIVS

LAVADVAVGA

P

LVSVPGNVLV

IWAVKVNQAL

RDATCFIVS

LAVADVAVGA

P

LVSVPGNVLV

IWAVKVNQAL

RDATCFIVS

LAVADVAVGA

P

Receptor	Adenosine A2a Receptor	273	225	sapiens
LVIPLAILIN IGPQTYFHTC LMVACPVLIL TQSSILALLA IAVDRYLVRK IPIRYKMVVT	Adenosine A2a Receptor	273	225	sapiens
PRRAAVAIAAG CWILSFVVGL TPMFGWNLS AVERAWAANG SMGEPIVKCE FEKVISMMEYM	Adenosine A2a Receptor	273	225	sapiens
VYENFFVWVL PPLLMLVLIY LEVFIYLRKQ LNKRVSSASSG DPQKYGKEL KIAKSLALIL	Adenosine A2a Receptor	273	225	sapiens
FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVIYAF RIQKFRVTEFL	Adenosine A2a Receptor	273	225	sapiens
KIWNDFHRCQ PAPPIDEDLP EERPDD	Adenosine A2a Receptor	273	225	sapiens
tttgcaggtg cctcaggaac cctgaagctg ggctgagcca tgatgtgtgt gccagaaccc A	Adenosine A2a Receptor	273	225	sapiens
ctgcagaggg cctgggttca ggagactcag agtccctgtt gaaaagccc ttggagagcg	Adenosine A2a Receptor	273	225	sapiens
ccccagcaagg gctgcaacttg gctcctgtga ggaagggggt cagggtgtctg ggcctctccg	Adenosine A2a Receptor	273	225	sapiens
cctgggcccgg cctgggagcc aggcggggcg ctgggtgtgca gcaatggacc gtgagctggc	Adenosine A2a Receptor	273	225	sapiens
ccagcccgcg tccgtgtgta gctgctgtgt cgtctgtggc catgcccatc atgggtctct	Adenosine A2a Receptor	273	225	sapiens
cgtgtacat cagcgtggag ctggccattg ctgtctgggc catcctgggc aatgtgtgtg	Adenosine A2a Receptor	273	225	sapiens
tgtgtgggc cgtgtggctc aacagcaacc tgcagaaagt caccacatc ttgtgtgtgt	Adenosine A2a Receptor	273	225	sapiens
cactggcggc ggccgacatc gcagtgggtg tgctcgcat ccccttgcc ataccatca	Adenosine A2a Receptor	273	225	sapiens
gcacgggtt ctgcgtgcc tgccacggct gcccttcat tgctgtctt gctcgtgtcc	Adenosine A2a Receptor	273	225	sapiens
tcacgcagag ctccatcttc agtctcctgg ccctgcctat tgaccgtac attgccatcc	Adenosine A2a Receptor	273	225	sapiens
gcacccgct ccggtacaat ggcttggtga ccggcaagag ggctaaaggg atcattgcca	Adenosine A2a Receptor	273	225	sapiens
tctgtgggt gctgtcgtt gccatcgcc tgactccat gctaggttgg acaactgcg	Adenosine A2a Receptor	273	225	sapiens
gtcagccaaa ggagggaag aaccactccc aggtctcggg ggagggccaa gtggcctgtc	Adenosine A2a Receptor	273	225	sapiens
tctttgagga tgtgtcccc atgaactaca tgggttactt caactcttt gctgtgtgc	Adenosine A2a Receptor	273	225	sapiens
tgtgtcccc gctgtcatg ctgggtgtct atttgcgat ctctctggcg gcgcagcag	Adenosine A2a Receptor	273	225	sapiens
agctgaagca gatggagagc cagcctctgc cggggggagcg ggacgggtcc acatgcaga	Adenosine A2a Receptor	273	225	sapiens
aggaggtcca tgcgtccaag tcactggcca tcatttgggg gctctttgcc ctctgtggc	Adenosine A2a Receptor	273	225	sapiens
tgccctaca catcataac tgcttcaact tcttctgcc cgaactgcag cagccccctc	Adenosine A2a Receptor	273	225	sapiens
tctgtctcat gtacctggcc atcgtctctt cccacaccaa ttggtgtgtg aatccctca	Adenosine A2a Receptor	273	225	sapiens
tctacgccta ccgtatccgc gagtctccgc agactctccg caagatcatt cgcagccacg	Adenosine A2a Receptor	273	225	sapiens
tcctgaggca gcaagaacct ttcaaggcag ctggcaccag tgccccgggtc ttggcagctc	Adenosine A2a Receptor	273	225	sapiens
atggcagtga cggagagcag gtacagctcc gtctcaacgg ccaccgccca ggagtgtggg	Adenosine A2a Receptor	273	225	sapiens
ccaaaggcag tgcctccac cctgagcgga ggcccaatgg ctatgccctg gggctgtgtga	Adenosine A2a Receptor	273	225	sapiens
gtggaggagg tgcccaagag tcccaggga acacgggctt cccagacgtg gactcetta	Adenosine A2a Receptor	273	225	sapiens
gccatgagct caagggagtg tgccagagc cccctggctt agatgacccc ctggcccagg	Adenosine A2a Receptor	273	225	sapiens
atggagcagg agtgcctga tgattcatgg agtttgcctt tctcaagggg aaggagatct	Adenosine A2a Receptor	273	225	sapiens
ttatcttctt ggttggcttg accagtcaag ttgggagaag agagagagtg ccaggagacc	Adenosine A2a Receptor	273	225	sapiens
ctgagggcag ccggttccca ctttggactg agagaaagga gcccaggctt ggagcagcat	Adenosine A2a Receptor	273	225	sapiens
gaggccacg aagaagggtt tgggttctga ggaagcagat gtttcatgtt gtgaggcctt	Adenosine A2a Receptor	273	225	sapiens
gcaccaggtg ggggccacag caccagcagc atctttgtgt ggcaggccca gccctccact	Adenosine A2a Receptor	273	225	sapiens
gcagaaagcat ctggaagcac caccttgtct ccacagagca gcttggggcac agcagactgg	Adenosine A2a Receptor	273	225	sapiens
cctggccctg agactgggga gtggtcccaa tagcctcttg ccaccacac accactctcc	Adenosine A2a Receptor	273	225	sapiens
ctagactctc ctagggttca ggagctgtgt gggccagagg tgacatttga ctttttcca	Adenosine A2a Receptor	273	225	sapiens
ggaaaaatgt aagtgtgagg aaacctttt tattttatta ctttcaactc tctggctgct	Adenosine A2a Receptor	273	225	sapiens
gggtctgcgg tcggtcctgc tgctaacctg gcaccagagc ctctgcccgg ggagcctcag	Adenosine A2a Receptor	273	225	sapiens
gcagtcctct cctgctgtca cagctgcaat ccacttctca gtccccgggc catctcttgg	Adenosine A2a Receptor	273	225	sapiens

26	Adenosine A2a Receptor	NP_000666.2	MPIMSSVYI TVELAIAVLA ILGNVLVCWA VLNLSNLQNV TNYFVVSILAA ADIAVGVLAI P PFAITISTGF CAACHGCLFI ACFLVLITQS SIFSLIAIAI DRYIAIRIFL RYNGLVITGTR AKGIIAICWV LSEFAIGLTPM LGWNNCGQPK EGKNSHQGG EGQVACLFED VPMNVMYVF NFFACVLVPL LMLGVYIRI FLAARQLKQ MESQPLGER ARSTLQKEVH AAKSLAIIVG LFALCWPLH IINCFTFCP DCSHAPLWLM YLAIVLSHTN SVNPFYIAY RIREFRQTFR KIIRSHVLRQ QEPFKAAGTS ARVLAHGS D GEQVSLRLNG HPPGVWANGS APHPERRPNG YALGLVSGGS AQESQGNLGL PDVELLSHEL KGVCPPEPPGL DDPLAQDGAG VS aa	Homo sapiens
27	Adenosine A2b Receptor	NM_000676	gagcaatttg ttagttatcc gccgccacca agacgcggca cggcgccctgg accgagggg A ccccgcgcgg gcgcgaactt tgggctcggg cgagtgggtg gtgctccgcc cagccccaga cgggcgggcg cgcgggccaa tgggtgcgcg ctcttggcgg cgggggggccc cgaccctgg gtcccgccca ccagcgcgc agccccgagg ctcagaagcg cgaggcgag gcgcgggtccg ggcgctatgg ccatgcgcgg cgggtctcac gcggtgcc ctcgccggc gcgccttcgg tagggggcgc ccggggccca gctggcccg ccatgctgct ggagacacag gacgcgctgt acgtggcgct ggagctggtc atgcgcgcgc ttctgggtgc ggcaaacgtg ctggtgtgcg ccggtgtggg cagggcgaa acctgtcgaga gccccacca ctactccctg gtgtccctgg ctgcggcga cgtggcggtg gggtcttcg ccatccccc tgccatccac atcagcctgg gtctctgcac tgacttctac ggctgcctct tcctgcctct cctcgcctg gtgctcacgc agagctccat ctccagcctt ctggccgtgg cagtcgacag atacctggcc atctgtgtcc cgctcaggtg taaaagtgtg gtcacgggga cccgagcaag aggggtcatt gctgtcctct gggtccttgc ctttggcctc ggattgactc cattcctggg gtggaacagt aaagacagt ccaccaacaa ctgcacagaa ccctgggatg gaaccacgaa tgaagctgc tgccttgtga agtgtctctt tgagaatgtg gtccccatga gctacatggt atatttcaat ttctttgggt gtgttctgcc ccactgctt ataagtctgg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgcact gagctgatgg accactcgag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgattg tggggatttt tgccctgtgc tggttacctg tgcattgtgt taactgtgtc actcttttcc agccagctca gggtaaaaaat aagcccaagt gggcaatgaa tatggccatt ctctgttcac atgccaatc agttgtcaat cccattgtct atgcttaccc gaaccgagac ttccgctaca cttttcaca aattatctcc aggtatcttc tctgccagc agatgtcaag agtgggaatg gtcagggtgg ggtacagcct gctctcggtg tgggctatg atctaggctc tcgcctcttc caggagaaga tacaatacca caagaaacaa agaggacag gctggttttc attgtgaaag atagctacac ctcaaaagga aatggactgc ctctcttgag cacttccctg gatgtaccac gtatctagct aatatgtatg tgtcagtagt aggctccaag gattgacaaa tataattatg atctattcag ctgcttttac tgtgtggatt atgccaaacg cttgaatgga ttctaacaga ctcttttgtt tttaaaagtc tgccttgttt atggtggaaa attactgaaa ctattttact gtgaaacagt gtgaactatt ataatgcaa tactttttaa cttagaggca atggaaaaat aaaagttagc tgtactaaaa atg	Homo sapiens

28	274	Adenosine A2b Receptor	NP_000667.1	MLETQDALY VAELELYAAL SVAGNVLVCA AVGTANTIQT PTNYFLVSLA AADVAVGLEA P IPFAITISLG FCTDFVGCLEF LACFVLVLTQ SSIFSLAVA VDRYLAICVP LRYKSLVTGT RARGVIAVLW VLAFGIGLTP FLGWNKSDSA TNNCTEPWDG TTNESCCCLVK CLFENVVPM YMYFNFFGC VLPPLILMLV IYIKIFLVAC ROLQRTEIMD HSRTTLOREI HAAKSLAMIV GIFALCWLPV HAVNCVTLEFQ PAQGNKPKW AMNMAILSH ANSVVNPIVY AYNRDRFRT FKHIIISRYLL QADVKSNG QAGVQPALGV GL	Homo sapiens
29	275	Adenosine A3 Receptor	NM_000677	atctttgctg caaaggctgg gctatggctg tgctcagcaa agcgtcaact cgtgcaagaa A cttagcagga atagttctgg ctaagggttag gaggctgcca ccaaagtctc tttttgttc ctctgcttct cccgtttgccc tctttatcat gagatctttt tgctaagctg gcagaaagat tgcatagtca gtgcttcacg ctctgctccc acctgacct gcactgtcct ctggtccctg aatgaatgaa ctctgatacc caatctgtg tctgtgaga gtctgtacct ctgtacttcc tcttgcccc tctcacttcc tgaacaaccc ctgaagaggg ttgcttatct tgatggaact caaaaagcca aaaagctgca ggcagagggc ttgaggacat ctgtttgggg aactaagagc agcagcactt tcagattcag tccatataga gctgtctcac agcattctgg aaacttgagg atgtgcggtg cataaagggg ctggaagtga cccacctgtg atgagccct tctaaggaga aggttttcca agagatcacc ccaccagaaa aggttaggaa tgagcaagtt gggaatttta gactgtcact gcacatggac ctctgggaag acgtctggcg agagctaggc ccactggccc tacagacgga tcttgctggc tcaactgtcc ctgtggaggt tccctggga aggcaagatg cccaacaaca gcactgtct gtcatggcc aatgttacct acatcaccat ggaaattttt attggactct gcgccatagt gggcaacgtg ctggtcatct gcgtggtcaa gctgaacccc agcctgcaga ccaccacct ctatttcatt gtctctctag ccttggtgta cattgctgtt ggggtgctgg tcatgacctt ggccattgtt gtcagccctgg gcatacaaat ccacttctac agctgacctt ttatgacttg cctactgctt atctttacc acgctccat catgtccttg ctggccatcg ctgtggaccg atacttgcg gtcaagctta ccgtcagata caagagggtc accactcaca gaagaatatg gctggccctg ggcctttgct ggctggtgtc attcctggtg ggattgacct ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt catgccaatt tgtttccgtc atgagaatgg actacatggt atacttcagc ttccctcacct ggattttcat ccccttggtt gtcattgctg ccatctatct tgacatcttt tacatcattc ggaacaaact cagtctgaac ttatctaact ccaagagagc aggtgcattt tatggacggg agttcaagac ggctaagtc ttgtttctgg ttcttttctt gtttgctctg tcatggctgc ctttatctat catcaactgc atcatctact ttaatggtga ggtaccacag cttgtgctgt acatgggcat cctgctgtcc catgccaaact ccatctcgtc cctatcgtc tatgcctata aaataaagaa gttcaagga accctacctt tgatcctcaa agcctgtgtg tctgacctc cctctgattc tttagacaca agcatttga agaattctga gtagtattcc atcagagatg actctgtctc attgaccttc agattcccca tcaacaaaca cttgagggcc tgtatgcctg ggccaaagga tttttacatc ctgtattact tccactgagg tgggagcatc tccagtgcct cccaattata tctccccac tccactactc tcttctcca cttcattttt cctttgtcct ttctctctaa ttcagtgttt tggaggcctg acttggggac aacgtattat tgatattatt gtctgttttc cttcttccca atagaagaat aagtcattga gcctgaaggg tgcctagtgtg acttactgac aaaaggctct agttgggctg aacatgtgtg tgggtgtgac tcatttccat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gccattgtgg aattgagcag agaacctgct ctgaggagat gcctagaaga tgttggaac agaagaata aactgagttt aaggggact taaactgctg aattcacctg tggatgttt tgagtaata aaagtaata g MPNNSTALS ANVTYITMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFY IVSLALADIA P VGLVMPLAI VWSLGTIHF YSCLEFMTCLL LIFTHASINS LLAIADVRYL RVKLTVRYKR VTTHRIWLA LGLCWLVSFL VGLTPMFGWN MKLTSEYHRN VTFLSQFVS VMRMDYMYF SFLTWIFPL VMCAIYLDI FYIIRNKLSL NLSNSKETAL FYGREFKTAK SLFLVLFLEA LSWLPLSIIN CIIYFNGEVP QLVLYMGILL SHANSWMNPI VYAYKIKKFK ETYLLILKAC VCHPSDSL TSIEKNS	Homo sapiens
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	atgaagcaca ttatcaactc gtatgaaac atcaacaaca cagcaagaaa taattccgac A tgtcctcgtg tggttttgcc ggaggagata tttttcacaa tttccattgt tggagttttg gagaatctga tcgtcctgct ggctgtgttc aagaataaga atctccaggc acccatgtac ttttcatct gtactgtggc catatctgat atgtctggga gcctataaa gatcttgaa aatatcctga tcataatgag aaacatgggc tatctcaagc cagtggcag ttttgaacc acagcagatg acatcatcga ctccctgttt gtcctctccc tgcttgctc catcttcagc ctgtctgtga ttgctgcca cgcctacatc accatcttcc acgcactgc gtaccacagc atcgtgacca tgcgcgcgac tgtgtgtgtg cttacggtea tctggacgtt ctgcacggg actggcatca ccatgtgat cttctcccat catgtgccc cagtgtacac cttcacgtcg ctgttccgc tgatgctggt cttcatcctg tgcctctatg tgcacatgtt cctgctggt cgatccaca ccaggaagat cttccacctc ccagagcca acatgaagg ggcacacaca ctgaccatcc tgcctggggt cttcatcttc tgcctggccc ctttgtgtct tcatgtcctc ttgatgacat tctgcccag taacctctac tgcgcctgct acatgtctct cttccagtg aacggcatgt tgatcatgt caatgcctc attgacctc tcatatagc cttccggagc ccagagctca gggacgcat caaaaagatg atcttctgca gcaggtactg gtag MKHIINSYEN INNTARNSD CPRVLPPEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P FFICSLAISD MLGSLYKILE NILIILRNMG YLKPRGSFET TADDIIDSF VLSLLGSIFS LSVIAADRYI TIFHALRYHS IVTMRRTVVV LTVIWTFCTG TGITMVFISH HVPTVITFTS LFPLMLVFIL CLYVHMFLLA RSHTRKISTL PRANMKGAT LTILLGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLFQV NGMLIMCNAV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	tcctgcccgc cgctcgttct gtgcccccg gcccggccacc gacggccgcg cgttgagatg A actttccgcg atctcctgag cgtcagtttc gagggacccc gcccggacag cagcgacagg ggctccagcg cgggcccgcg cgggggcagc gggggcgcg cggccccctc ggaggcccc gcggtggcg gcgtgcggg ggcgcggcg gcgtgggag cgcgtgggg cgacggcagc ggcaggaca accggagctc cggggggag cggggcgcg cggggcgcg cggcgacgtg aatggcagcg cggccctcgg gggactggtg gtgagcgcgc agggcgtgg cgtgggcgtc ttcctggcag ccttcactct tatggccgtg gcaggtaacc tgcttgctcat cctctcagt gcctgcaacc gccacctgca gacctcacc aactatttca tctgtaacct ggcgtggcc gacctgctgc tgagcgcac cgtactgccc ttctcgcca ccatggaggt tctgggcttc tgggcccctt gccgcgctt ctgcgacgta tggggccgcg tggacgtgct gtgctgcacg gcctccatcc tcagcctctg caccatctcc acgtggcggt acgtggcggt gcgccactca	Homo sapiens
33	376	Alpha 1d-adrenoceptor		Homo sapiens

34	Alpha 1d- adrenoceptor	NP_000669.1	376	ctcaagtacc cagccatcat gaccgagcgc aaggcgccgc ccatcctggc cctgctctgg gtcgtagccc tgggtgtgtc cgtagggccc ctgctgggct ggaaggagcc cgtgccccct gacgagcgct tctgcggtat caccgagagc gggggtacg ctgtctcttc ctccgtgtgc tcctttacc tgcccatggc ggtcatcgtg gtcattgtact gccgctgta cgtggtcgcg cgagacacca cgcgcagcct cgaggcagc gtcaagcgcg agcgaggcaa ggcctccgag gtggtgtgc gcatccactg tcgcgcgcg gccacggcg ccgacggcg ccacggcatg cgagcgcca agggccacac ctcccgagc tcgctctccg tgcgctgct caagtctcc cgtgagaaga aagcgggcaa gactctggc atcgtctgg gtgtctctgt gctctgctgg ttccctttct tcttgtctt gccgtctggc tcttgttcc gcgagctgaa gccatcgag ggcgtcttca aggtcatctt ctggctcggc tacttcaaa gctgctgaa cccgctcatc tacctgtt ccagcgcga gttcaagcg cctctctgg cctctctcc gctctcgcg ctgccagtgc cgtcgtcgc ggcgccgcg cctctctgg cgtgtctac gccaccactg gcggcctcc accagcgcc tgcgcagga ctgcgcccgc agtcgggcg acgcccccc cggagcgcg ctggccctca ccgctctcc cgaccccgac ccgaacccc caggcacccc cgaagtgcg gctccgctc ccagcgtcg aaagccacc agcgcctcc gcgagtgag gctgctggg ccgttcgga gacccacgac ccagctgcg gccaaagtct ccagcctgtc gcacaagatc cgcccgggg gcgcgagcg cgcgagggc agctgcgcc agcgtcaga ggtggaggct gtgtccctag gctcccaaca cgagtgccc gagggcgcca cctgccaggc ctacgaattg gccgactaca gcaacctacg ggagaccgat attaaaggac ccagagcta ggcgcggag tgtctgggc ttgggggtaa gggggaccag agagctggc tgggttcta agagccccg tgcaaatcgg agaccggaa actgatacgg cagcgtggc tgtgacatcc ctgaggaact gggcagagct tgagcgtgaa gccctgaaa ggtgaaaagt agtggggccc cctgctggac tcaggtgccc agaactctt tcttagaag gagagctgc gggctccgtg gggcctttg ctcccaatcc ctatttgaga aacactgcc cactctccat gccctgaacc ctgagtagac agcccaagc atggccagga agcctgccc MTFRDLISVS FEGRPDSSA GGSSAGGGG SAGGAAPSEG PAVGGVPGGA GGGGVVVGAG P SGEDNRSSAG EPGSAGAGD VNGTAAVGL VVSAQGVGV VFLAAILMA VAGNLLVILS VACNRHLQTV TNYFIVNLAV ADLLLSATVL PFSATMEVLG FWAFGRAFC VAAVDVLC TASILSLCTI SVDRYVGVVRH SLKYPAINTE RKAAILALL WVVALVSVG PLLGWKEPVP PDERFCGITE EAGYAVFSSV CSFYLPMAVI VMYCRVYV ARSTTRSLEA GVKRERGKAS EVLRIHCRG AATGADGAHG MRSKAGHTFR SLSVRLLEK SREKKAATL AIVGVFVLC WFFFFVLPL GSLFPQLKPS EGVEKVIWL GFNSCVNPL IYPCSSREFK RAFLLRLRCQ CRRRRRRRPL WRVYGHWRRA STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM QAPVASRRKP PSAREWRLL GFRRRTTQL RAKVSSLSHK IRAGGAQRAE AACQQRSEVE AVSLGVPHEV AEGATCQAYE LADYSLNRET DI 377 Alpha 1b- adrenoceptor	NM_000679	377	aggcaggaga cgtgctgcgg cgtgggctgc ccgggggaga tgactcctgc caggaggcg A cctctgggaa gaagaccacg ggggaagcaa agtttcaggg cagctgagga gccttcgccc cagccctcc gagcccaatc atccccagc ctatggaggc cggactctaa gatgaatccc gacctggaca ccggccacaa cacatcagca cctgcccact ggggagagtt gaaaaatgcc aacttcactg gcccacaa gacctcgagc aactccacac tgccccagct ggacatcacc agggccatct ctgtgggctt ggtgctgggc gccttcatcc tcttgccat cgtggggaac	Homo sapiens
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36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tcttgtctgt ggctgtcaac cggcacctgc ggagccccc caactacttc attgtcaacc tggccatggc cgacctgtg ttgagcttca ccgtccctgc cttctcagcg gccctagagg tgcctggcta ctgggtgctg gggcgatct tctgtacat ctgggcagcc gtggatgtcc tgtgtctcac agcgtccatt ctgagccctg cgcccatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat ccacgctgg ccaccggag gaaggccatc ttggcgctgc tcaagtctg ggtcttgtcc agctcatct ccacgggccc tctccttggg tggaaggagc cggcacccaa cgatgacaag agtgcgggg tcaccgaaga acccttctat gccctcttct cctctctggg ctcctcttac atccctctgg cggtcattct agtcattgtac tgccgtgtct atatagtggc caagaagacc accaagaac tagaggcag agtcatgaag gagatgtcca actccaaggc gctgacctg aggtaccatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aacccaggga gttccatagc tgtcaaaactt tttaagtctt ccagggaata gaaagcagct aagacgttgg ccatgtgtgt cggtatgttc atcttgtgtt ggtaccctt cttcatcgt ctaccgctg gctccttgt ctcaccctg aagcccccg acgctgtgt caaggtgtg tctgtgctg gctacttcaa cagctgcctc aaccocatca tctaccatg ctccagcaag gatttcaag cgcttctgt gcgcatcctc gggtgccagt gccgcgccg cggccgcgc cgacgcgcg gccgcgctg cctggggcgc tgcgctaca cctaccgccc gtggacgctg ggcggctgc tggagcgtc gcagtgcgc aaggactcgc tggacgacag cggcagctgc ctgagcggca gccagcgac cctgccccg gcctgcgcga gccgggcta cctgggcgc ggcgcgccac gccagtcga gctgtgcgc tcccccgagt ggaaggccc cggcgccct ctgagcctgc ccgcgctga gcccccgcc cgccgcggcc gccacgact gggccgctc ttcacctca agctcctgac cgagcccgag agccccggga ccgacggcgg cgcagcaac ggaggtgcg agcccgcgcc cgactgtgac aacgggcagc cgggcttcaa aagcaacatg cccctggcg ccgggcagtt ttaggggccc cgtgcgcagc tttcttccc tggggaggaa aacatcgtg ggggga MNPDLDTGHN TSAPAHWGL KNAFTGPNQ TSSNSTLPQL DITRAISVGL VLGAFLFAI P VGNILVLSV ACNRLRPT NYFIVNLAMA DLLLSFTVLP FSAALEVLGY WVLGRIFCDI sapiens WAAVDVLCCT ASILSLCAIS IDRYIGVRS LQYPTLVTRR KAILALLSVW VLSTVISIGP LLGWKEPAPN DDKECGVTEE PFYALFSSLG SFYIPLAVIL VMYCRVYIVA KRTKNLEAG VMKEMSNSKE LTLRIHSKNF HEDTLSSTKA KGNPRSSIA VKLFKFSREK KAAKTLGIVV GMFILCWLPF FIALPLGSLF STLKPPDAVF KVVFWLGYFN SCLNPIIYPC SSKEFKRAFV RILGCQCRGR GRRRRRRRR LGGCAYTYRP WTRGGSLEERS QSRKDSLDDS GSCLSGSQRT LPSASPSGY LRGAPPPEVE LCAFPEWKAP GALLSLPAPE PPGRRRRHDS GPLFTFKLLT EPESPGTDGG ASNGGCEAAA DVANGQPGFK SNMPLAPGQF gaattccgaa tcatgtgcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cggaanaagca gattctcgta attctggaat tgcattgtgc aaggagtctc ctggatcttc gcacccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcagggtg agagggtccc cggcagcccc gcgcgcccc ctgcatgtct ttaatgcctt gcccttctat gtggccttct gaggttccc agggctggcc aggttgttt cccaccccg cgcgctctct caccceagc caaaccacc tggcagggt cctccagcc gagacctttt gattccccgc tcccgctc ccgcctccg gccagcccc gaggtggccc tggacagccg gacctcgccc ggccccgct ggaccatgg tgttctctc tccgacagct ccaactgcac</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>gaattccgaa tcatgtgcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cggaanaagca gattctcgta attctggaat tgcattgtgc aaggagtctc ctggatcttc gcacccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcagggtg agagggtccc cggcagcccc gcgcgcccc ctgcatgtct ttaatgcctt gcccttctat gtggccttct gaggttccc agggctggcc aggttgttt cccaccccg cgcgctctct caccceagc caaaccacc tggcagggt cctccagcc gagacctttt gattccccgc tcccgctc ccgcctccg gccagcccc gaggtggccc tggacagccg gacctcgccc ggccccgct ggaccatgg tgttctctc tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	<p> cgaacggccg gcacgggtga acatttccaa ggccattctg ctccgggggtga tcttggggggg cctcattctt ttccgggggtgc tgggtaacat cctagtgatc ctctccgtag cctgtcacccg acactggcac tgaatcaacg actactacat cgtcaacatg gcgggtggccg acctcctgct cacctccacg gtgctggcct tctccgccat cttccaggtc ctaggctact gggccttcgg cagggtcttc tgcaacatct gggcggcagt ggatgtgctg tgctgcacccg cgtccatcat gggcbctctg atcatctcca tgcacccgta cgtccggctg agtaccgccg tgcgtacc aacatcgtc acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggteatatcc attggacccc tgttcggctg gaggcagccg gccccggagg acgagaccat ctgccagatc aacgaggagc cgggctaagt gctcttctca gcgctgggct ccttctacct gcctctggcc atcatccttg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggcctc aagtctggcc tcaagaccga caagtcggac tcggagcaag tgacgctccg catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcactctca gtgaggctcc tcaagtctc ccgggagag aaagcgcca aaacgtggg catcgtgggc ggtgcttctg tctctgctg gctgctttt ttcttagtca tgccccatgg gtcttctctc cctgatttca agccctctga aacagttttt aaaaagtat ttggctcgg atatctaaac agctgcatca accccatcat ataccatgc tccagccaag agttcaaaaa ggcctttcag aatgtcttga gaatccagt tctccgcaga aagcagctt ccaaacatgc cctgggctac accctgcacc cggccagcca ggcgtggaa gggcaacaca agacatggt gcgcatcccc gtgggatcaa gagagacctt ctacaggatc tccaagacgg atggcgtttg tgaatggaaa ttttctctt ccatgccccg tggatctgcc aggattacag tgtccaaaga ccaatcctcc tgtaccacag ccggtgtgag aagtaaaagc tttttggagg tctgctgctg tgtagggccc tcaaccccca gccttgacca gaacatcaa tttccaaacca ttaaggtcca caccatctcc ctcaagtga acggggagga agtctagac agaaaagatg cagaggaaaag gggaataatc ttaggtacc accccactc ctctcggaa ggccagctct tcttggagga caagacagga ccaatcaaa aggggacctg ctgggaatgg ggtgggtggt agaccaact catcaggcag cgggtagggc acagggaaga gggagggtgt ctcaacaacca accagttcag aatgatacgg aacagcattt ccctgcagct aatgctttct tggtcactct gtgccactt caacgaaaa caccatggga aacagaatt catgcacat ccaaaagact ataaatatag gattatgatt tcatcatgaa tattttgagc acacactcta agtttggagc tatttcttga tggaagtggagg gggattttat tttcagggtc aacctactga cagccacatt tgacatttat gccgggaattc </p>	Homo sapiens
379	Alpha 1c- adrenoceptor	NP_000671.1	<p> SSNCTQPAP VNISKAILLG VILGGLILFG VIGNILVILS VACHRHLSV P THYIYVNLAV ADLLTSTVL PFSAIFEVLG YWAFGRVFCN IWAADVVLCC TASIMGLCII SIDRYIGVSY PLRYPTIVTQ RRLMALLCV WALSLVISIG PLFGWRQPAP EDETCIQINE EPGYVLEFSAI GFYLPPLAI I LVMYCRVYV AKRESRLGKS GLKTDKSDSE QVTLRIHRKN APAGSGMAS AKTKTHFSVR LLKFSREKKA AKTLGIVVGC FVLCWLPPFL VMPIGSFFPD FKPSETVFKI VFWLGYLNSC INPIIYPCSS QEFKAFQNV LRIQCLRRKQ SSKHALGYTL HPPSQAVEGQ HKDMVRIPVG SRETFYRISK TDGVCWEKFF SSMPRGSAI TVSKDQSSCT TARVRSKSL EVCCCVGPST PSLDKNHQVP TIKVHTISLS ENGEEV </p>	Homo sapiens
387	Alpha 2a- adrenoceptor	NM_000681	<p> gcgctcgccg ccacacaggc ggacgcccag gagaacccct gcctccgctg cggtcctctg A agagctgac gtccacctgc cccggcccgc ctgaggagcgg ggggtgccttc atgggcccc </p>	Homo sapiens

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40	Alpha 2a- adrenoceptor	AAA51664.1	387	gctcacaaaa ggtaaatgga tgggggtttac ctaggccctgg ctaattcccc ttccattccc aaactctctct ctctttttga agaaaaatgc taaggcgagc cctgcctgcc ctccccatcc cccgcgtgtaa atatacacta tttttgatag cacacatggg gccccatat ctcttggect tggttttgat gttgaaatcc tggccttggg agagatgctt tccaggcgaga cacagctgtc tggttcaggc caagccctt tgcaatgcaa gccctttctg tctttatgaa gtccctctat gtcgtcgttt tcaccagcaa ctggtgactg tcccttcgac aggacccctg tttgagattt cctgacaggg aaaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt tcctatgtaa atattatgat ggtggatcaa gacataagta aatgagcctt tctgcctcac atcagccctg tgtataaagc cattattctc tgaagcactg tttgccccag taactcactt taaaacctct ctctccagtg ttcctctctc cctccaggg ccactgcttg aagaagaata tgtatgtttc tatcttttat gtctgtgtgc cctcctgcc ccgaaatgc tgactatggg gaaatctttt agctgctgtt tttagactcc aaggagtga aattatgtg aagaagcaaa cctgatacaa tttgcccag gtaaacagtt tgaagaagca aatgggcttg ccaaaactgta cagtttcttc ccaagagct gttaggtatc aaaaatgtgt cctttcccc cctcgtgctt ttctggttga gatcatgtca ttgatgaact gccaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcactctt atttcaacta agaaaaacta atgtcagcac atgttgctaa tgacagtggg tttttttta aataaaaaag tttacagatc aaatgtgaaa taaatatgaa tggagtgtgc aaa MGSLLQPDAGN ASWNGTEAPG GARATPYSL QVTLTLVCLA GLMLLTVFG NVLVIIVFT P SRALKAPQNL FLVSLASADI LVATLPIFES LANEVMTGWY FGKTWCEIYL ALDLVFTSS IVHLCAISLD RYWSITQAE YNLKRTPRRI IMILVYRIY QIAKRRTVRP PSRRGPDVA PPAEPRCEI NDQKWYISS CIGSFEAPCL KAILIITCVI SAVISFPPLI SIEKKGGGG APPGTERRP NGLPERSAG PGGAEEPLP TQLNGAPGE APAGPRDTDA LDLESSSD HAERPPGPRR PERGPRGK ARASQVKPGD SLRGAGRGR GSGRRLQGRG RSASGLPRR AGAGGQNLK RFTFVLAVI GVFWVCWFFP FFTYTLTAVG CSVPRTLFKE FFWFGYCNS LNPVIYITFN HFRRAFKKI LCRGDRKRIV	Homo sapiens
41	Alpha 2b- adrenoceptor	NM_000682	388	atggaccacc aggaacctta ctccgtgcag gccacagcgg ccatagcgc gccatcacc A ttcctcattc tctttaccat ctctcgcaac gctctggtca tcttgctgt gttgaccagc cgctcgtgc gcgcccctca gaacctgttc ctggtgtgc tggccgcgc cgacatcctg gtggccacgc tcatcatccc ttctcgtcgt ccaacgagc tgctgggcta ctggtacttc cggcgacagt ggtgcagagt gtacctggcg ctgcagctgc tcttctgac ctggtccatc gtgcacctgt gcgccatcag cctggaccgc tactgggccc tgagccgcgc gctggagtag aactccaagc gcaccccgcg ccgcatcaag tgcatactcc tcaactgtgt gctcctgcgc gccgtcatct cgtgcgcgc cctcatctac aaggccccc aggcgcgcgg cgccccagtg gcaagtcgaa ccaggagccc tggtagatcc tggcctccag catcggtatc ttctttgtct ctgtccctcat catgatcctt gtctacctg gcatctacct gatcgccaaa cgagcaacc gcagaggtcc cagggcccaag ggggggcctg gccagggtag gtccaagcag ccccgacccg accatggttg ggtttggcc tcagccaaac tgcagccct ggcctctgtg gcttctgcca gagaggtcaa cggacactcg aagtcactg gggagaagga ggagggggag acccctgaag atactgggac ccgggccttg ccaccagtt gggctgcct tcccaactca ggccagggcc agaaggaggg tgtttgtgg gcactctccag aggatgaagc tgaagaggag	Homo sapiens

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42 388 Alpha 2b- NP_000673.1 MDHQPYSVQ ATAIAAAT FLILFTIFGN ALVILAVLTS RSLRAPQNLF LVSLAAADIL P Homo

adrenoceptor		sapiens
		VATLIIPFSL ANELLGYWYF RRTWCEVYLA LDVLFCTSSI VHLCAISLDR YWAVSRALEY
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		EEEEEEEC EPQAVPVSPA SACSPLQOP QGSRVLATLR QVLLGRGVG AIGGQWRRR
		AHVTREKRET FVLAVVIGVF VLCWFPEEFS YSLGAICPKH CKVPHGLFQF FFWIGYCNSS
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		agcagcgtgt gccgcgcaa ggtggcccag gcgcgagga agcgtctac ctttgtgtg

43 389 Alpha 2c- NM_000683 adrenoceptor

Homo sapiens

Homo sapiens

Homo sapiens

Accession	Protein	Gene	Species	Length (aa)	Weight (kDa)	PI	Ref
NP_000674.1	Alpha 2c-adrenoceptor	ADRA2C	Human	389	42.5	5.5	[1]
MAASPALAAL			Human	389	42.5	5.5	[2]
AVAAAAGPNA			Human	389	42.5	5.5	[3]
SGAGERGSG			Human	389	42.5	5.5	[4]
VANASGASWG			Human	389	42.5	5.5	[5]
PPRGQYSAGA			Human	389	42.5	5.5	[6]
VAGLAAVVGF			Human	389	42.5	5.5	[7]
P			Human	389	42.5	5.5	[8]
LIVFTVVGVN			Human	389	42.5	5.5	[9]
LVVIAVLTSR			Human	389	42.5	5.5	[10]
ALRAPQNLFL			Human	389	42.5	5.5	[11]
VSLASADILV			Human	389	42.5	5.5	[12]
ATLVMFPFLA			Human	389	42.5	5.5	[13]
NELMAYWYFG			Human	389	42.5	5.5	[14]

45	Bradykinin B1 Receptor	NM_000710	ctgtgcatgg catcatctg gcccctcta gagctccaat ctctcaacca gagccagctc A
599			tccccataaa atgctacggc ctgtgacaat gctccagaag ctgaggacct ctgcacaga

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LIVFTVGNV	LWIAVLTSR	ALRAPQNLF	VSLASADILV	ATLVMPELSA	NELMAYWYFG
QWCGVYLAL	DVLFTSSIV	HLCAISLDRY	WSVTQAVEYN	LKRTPRRVKA	TIVAVWLISA
VISFPLEVSL	YRPDGAAYP	QCGLEINDTWY	ILSSCISGFF	APCLIMGLVY	ARIYRVAKRR
TRTLEKRAP	VGPDGASPTT	ENGLGAAAGE	ARTGTARPR	PWTSRTAAQ	PRGGAGPPL
RRGGRRRAGA	EGGAGGADGQ	GAGPGAAQSG	ALTASRSPPG	GGRLSRASSR	SVEFFLSRRR
RARSSVCRRK	VAQAREKRTT	FVLAVMVGVF	VLCWFPEFFFI	YSLYGICREA	QVPGPLFKE
FFWIGYCNSS	INPVIYTVFN	QDFRPFKHI	LFRRRRGFR	Q	
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cagccgtcc	cagatctgaa	catcacccg	tgcatctct	tctccccca	tgaggcctgg
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caagcagtc	gaggtgctt	ttgggaggac	ttcatggacc	tgggcctgca	atfggccaac
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tctctatcc	ataggaaaga	aatcttccaa	ctttctggc	ggaattaaaa	cagcattgaa
cc					

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPLEL QSSNQSQLEP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P	Homo sapiens
				VFLPRRLN VAEIYLANIA ASDLVFVLGL PFWAENIWNQ FNPFGALLC RVINGVIKAN	
				LFISIFLVA ISQDRYRLV HPMASGRQQR RQARVTCVL IWWVGGLLSI PTFLLRSIQ	
				VPDLNITACI LLLPHEAWHF ARIVELNIG FLLPLAIVF FNYHILASLR TREEVSRPRV	
				RGPKDSKTTA LILLVVAFL VCMAPYHFFA FLEFLFQVA SRGCFWEDFI DLGLQLANFF	
				AFTNSLNPV IYFVGRLEF TKWELYKQC TPKSLAPIS SHRKEIFQLF WRN	
47	600	Bradykinin B2 Receptor	NM_000623	atgttctctc tctgaagat atcaatgttt ctgtctgttc gtgaggactc cgtgcccacc A	Homo sapiens
				acggcctctt ccagccga catgctcaat gtcacctgc aaggcccac tcttaacggg	
				accttgccc agagcaaatg ccccaagtg gagtggctgg gctggctcaa caccatccag	
				cccccttcc tctgggtgct gtctgtgctg gccacctag agaactctt tgtctcagc	
				gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctggg gaacctggcc	
				gcagcagacc tgatcctggc ctgcgggctg cccttctgg ccatcaccat ctccaacaac	
				ttcgactggc tctttgggga gacgctctgc cgcgtggtga atgccattat ctccatgaac	
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				aaaaccatgt ccattggccg gatgcggcg cctgagctga ccaagctcta cagcttggtg	
				atctgggggt gtacgtgct cctgagctca cccatgctgg tgttcggac catgaaggag	
				tacagcgatg agggccaca cgtcacctt tgtgtcatca gctacccat cctcatctgg	
				gaagtgtca ccaacatgct cctgaatgtc gtgggcttcc tgcgtccct gagtgtcatc	
				accttctgca cgtgcagat catgcaggtg ctgcggaaca acgagatgca gaagtccaag	
				gagatccaga cggagaggag ggccacggtg ctagtcttgg ttgtgctgt gctattcatc	
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				ctctccagct gccaggacga gcgcatcatc gatgtaatca cacagatcg ctcttctatg	
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				aagaagtctt gggaggtgta ccaggagtg tgcagaaag ggggctgcag gtcagaacct	
				attcagatgg agaactccat gggcacactg cggacctcca tctccgtgga acgccagatt	
				cacaaactgc aggactggc agggagcaga cagtgcagca acgccagcag gctgctgtg	
				aatttgtgta aggattgagg gacagttgct ttctagcatg gcccagga tgccaaggag	
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				cctcccggtg gtctccgtc cctgccccag caagacaact tagatctcca ggagaactgc	
				catccagctt tggtgcaatg gctgagtga caagtgagtt gtgcccctgg gtttctttaa	
				tctattcagc tagaactttg aaggacaatt tcttgcatata ataaagttta agccctgagg	
				ggtccctgat acaaacctgg agaccaggat ttatggctc cctcactga tggacaagga	
				ggtctgtgcc aaagaagaat ccaataagca catattgagc acttgctgta tatgcagtat	
				tgagcactgt aggcaagacc caagaaagag aaggagccat ctccatcttg aaggaaactca	
				aagactcaag tgggaacgac tgggcactgc caccaccaga aagctgttcg acgagacggt	
				cgagcagggt gctgtgggtg atatggacag cagaaggggg agaccaaggt tccagctcaa	
				ccaataacta tgcacaacc acctgtccct gcctcagttc cttttatgt aacatgaagt	
				cgttgtgagg gttaaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtctac	

48	600	Bradykinin B2 Receptor	NP_000614.1	<p> ggcacatgga ggcacatgga cgcagacgta actgggatat gttactata agaaaaagac actgaggtct agaaatagct ccgtggagca gaatacgtat tgggagccgg tggcgggtgtg aagcaccagt gtctggcaca cagtaggtgc tcattggctc cctccacct gtcattccca ccacctgag gccccaaccg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaag atattttaa tcgtctctgc ccagaggatc acagtctga gaccccccac caccagccgg tacctgggaa tggggagagt gcaggccctgc tcagggactg ttccctgtctc agcaaccaag ggattgtcc tgtcaatcaa tggttttattg gaagtggtgcc cagtagagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc caggcagca ctcatcact tgataaatga atatttata gctggttggga gagctagaac ctggagagct agaacctgga gaactagaac ctggagggct agaacctgga gaggtctgaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaaacc tgagctagaa gctggaggac tagaacctgg agggctgaa tctgaaggc tagaacctgg agggctggaa tctggagagc tagaacctgg agggctgaa cctggagggc tagaacctag aagggtctga acctgaggg ctggaatctg gagagctaga acctggaggg ctagaacctg gagggctaga acctagaagg gctagaacct ggagggctag aacctggcag gttagaacct agaagggtc gaacctggag agccagaacc tggagggtc gaacctggaa gggctagaac ctgtagagct agaactgga gagctagaac ccggcaggct agaacctggc aagctagaac ctggagggaa tgaacctgga gggctagaac ctggagaatg agaaaaattt acatggcaaa gagccataa atctctgacca atccaaactt gaattttaaa gcaaaagct gaaaaaaaag attccctcct tacccccaac ccactctttt tccccaccac ccactctcct tgcctcagt aagtatctgg aggaagaaaa caggtgaaag aagaagtaaa aaccttttag tattagtatt agaataagt caaactgtgc cacacatggt gaataaaaa aaaaaaaag aggtgtgtt ttgtcacaca gggcagtcac tcagcacag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgcaatgg ccattgtgggg atccacacct ggtctgaggg gcaactgagt ctgcgggaga agagcggccc tatgcatggt tagatgccc tgataaagaa catctgtcct gtgaaagact caatgagctg ttatgttcta aacagggaag atttcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaaa aaa </p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000684	<p> ggcacatgga ggcacatgga cgcagacgta actgggatat gttactata agaaaaagac actgaggtct agaaatagct ccgtggagca gaatacgtat tgggagccgg tggcgggtgtg aagcaccagt gtctggcaca cagtaggtgc tcattggctc cctccacct gtcattccca ccacctgag gccccaaccg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaag atattttaa tcgtctctgc ccagaggatc acagtctga gaccccccac caccagccgg tacctgggaa tggggagagt gcaggccctgc tcagggactg ttccctgtctc agcaaccaag ggattgtcc tgtcaatcaa tggttttattg gaagtggtgcc cagtagagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc caggcagca ctcatcact tgataaatga atatttata gctggttggga gagctagaac ctggagagct agaacctgga gaactagaac ctggagggct agaacctgga gaggtctgaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaaacc tgagctagaa gctggaggac tagaacctgg agggctgaa tctgaaggc tagaacctgg agggctggaa tctggagagc tagaacctgg agggctgaa cctggagggc tagaacctag aagggtctga acctgaggg ctggaatctg gagagctaga acctggaggg ctagaacctg gagggctaga acctagaagg gctagaacct ggagggctag aacctggcag gttagaacct agaagggtc gaacctggag agccagaacc tggagggtc gaacctggaa gggctagaac ctgtagagct agaactgga gagctagaac ccggcaggct agaacctggc aagctagaac ctggagggaa tgaacctgga gggctagaac ctggagaatg agaaaaattt acatggcaaa gagccataa atctctgacca atccaaactt gaattttaaa gcaaaagct gaaaaaaaag attccctcct tacccccaac ccactctttt tccccaccac ccactctcct tgcctcagt aagtatctgg aggaagaaaa caggtgaaag aagaagtaaa aaccttttag tattagtatt agaataagt caaactgtgc cacacatggt gaataaaaa aaaaaaaag aggtgtgtt ttgtcacaca gggcagtcac tcagcacag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgcaatgg ccattgtgggg atccacacct ggtctgaggg gcaactgagt ctgcgggaga agagcggccc tatgcatggt tagatgccc tgataaagaa catctgtcct gtgaaagact caatgagctg ttatgttcta aacagggaag atttcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaaa aaa </p>	Homo sapiens

50	635	Beta-1 adrenoceptor	NP_000675.1	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgttggga gtacggctcc tctctctgcg agctgtggac ctacgtggac gtgtgtgtcg tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcacct cgccttccg ctaccagac ctgctgacgc ggcgcgggc gggggcctc gtgtgcaccg tgtgggacct ctgggacctg gtgtccttcc tgccatcct catgcaactg tggcgggcgg agagtcacga ggcgcgcgc tgctacaacg accccaagt ctgcgacttc gtaccaaac gggctacgc catcgctcg tccgtagtct ccttctactg gccctgtgc atcatggcct tegtgtacct cggggtgttc cgcgaggccc agaagcaggt gaagaagtc gacagctcg agcgcgttt cctcgcgcc cagcgcgcc cgccctgcc ctgcctcgc cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgcgcgcgc cgcgcgcac gcccgctgg ccaacggcg tgcgggtaag cggcgccct cgcgcctgt ggcctacgc gacgagaag cgtcaagac gctgggcatc atcatggcg tctcaactc ctgtgtgtc ccttcttcc tggcgaact ggtgaaggcc tccaccgcg agctgtgtcc cgaccgctc tctgttctc tcaactggct gggctacgcc aactcggcct tcaaccccat catctactgc cgcagcccc acctccgcaa ggccttccag ggaactgctc gctgcgcgc cagggtgcc cgcgcgcgc acggaacca cggagacgg cgcgcgcct cgggctgtct ggcgcgcgc ggcgcgcgc catgcgcgc ggcgcctcg gacgacgacg acgacgatgt cgtcggggc acgcgcgc cgcgcctgt ggagccctgg gccgctgca acggcggggc ggcggcgac agcgactcga gcctggaga cccgtgcgc cccgcttcg cctcggaatc caagtgtgt ggcgcgcgc gggcgcgga cccgcgcgc ggcctccacg gggaacgag agatctgtgt ttaactaaga ccatagacag gtgaactcga agccacaat cctcgtctga atcatccgag gcaagagaa aagccacgga cgttgcaaca aaagggaaag tttgggaag gatggagag tggctgtgt atgttctgt ttg MGLMALIVL LIVAGNVLI VAIKTPRLQ TLTNLFMSL ASADLMGLL VVFGATIVV WGRWEYGSFF CELWTSVDVL CVTASIEIIC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLPILMHWR AESDEARRCY NDPKCCDFVT NRAYAIASV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERRELGPA RPPSPSPSPV PAPAPPPGP RPAANAATAP LANGRAGKRR PSRLVALREQ KALKTLGLIM GVFTLCWLPF FLANVVKAFH RELVPDRLEFV FFNWLGANS AFNPIYCRS PDFRKAFOGL LCCARRAARR RHATHGDRPR ASGCLARPQP PPSPGAASDD DDDVVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRP FASESKV actgggaagc ggccttctca gagcacggc tggaactggc aggcacggc agcccttagc A acccgacaag ctgagtgtgc aggcagatc cccaccacac ccacaccaca gccgctgaat gagcttcca ggcgtccgct cgcggccgc agagcccgcc cgtgggtccg cccgctgag cgccccagc cagtgcgctt acctgccaga ctgcgcgcga tggggcaacc cgggaacggc agcgccttct tgcgtgcacc caatagaagc catgcgcgc accacacgt caccagcga agggacgag tgtgggtgtt gggcatggc atcgtcatgt ctctcatgt cctggccatc gtgtttggga atgtgtgtt catcacagcc attgccaagt tcgagcgtct gcagacggtc accaaactt tcaacttct actggcctgt gctgatctgg tcatggcct ggcagtgggtg ccctttgggg ccgccatat tcttatgaa atgtggactt ttggcaact ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagacct gtgctgatac </p>	Homo sapiens
51	640	Beta-2 adrenoceptor	NM_000024	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgttggga gtacggctcc tctctctgcg agctgtggac ctacgtggac gtgtgtgtcg tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcacct cgccttccg ctaccagac ctgctgacgc ggcgcgggc gggggcctc gtgtgcaccg tgtgggacct ctgggacctg gtgtccttcc tgccatcct catgcaactg tggcgggcgg agagtcacga ggcgcgcgc tgctacaacg accccaagt ctgcgacttc gtaccaaac gggctacgc catcgctcg tccgtagtct ccttctactg gccctgtgc atcatggcct tegtgtacct cggggtgttc cgcgaggccc agaagcaggt gaagaagtc gacagctcg agcgcgttt cctcgcgcc cagcgcgcc cgccctgcc ctgcctcgc cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgcgcgcgc cgcgcgcac gcccgctgg ccaacggcg tgcgggtaag cggcgccct cgcgcctgt ggcctacgc gacgagaag cgtcaagac gctgggcatc atcatggcg tctcaactc ctgtgtgtc ccttcttcc tggcgaact ggtgaaggcc tccaccgcg agctgtgtcc cgaccgctc tctgttctc tcaactggct gggctacgcc aactcggcct tcaaccccat catctactgc cgcagcccc acctccgcaa ggccttccag ggaactgctc gctgcgcgc cagggtgcc cgcgcgcgc acggaacca cggagacgg cgcgcgcct cgggctgtct ggcgcgcgc ggcgcgcgc catgcgcgc ggcgcctcg gacgacgacg acgacgatgt cgtcggggc acgcgcgc cgcgcctgt ggagccctgg gccgctgca acggcggggc ggcggcgac agcgactcga gcctggaga cccgtgcgc cccgcttcg cctcggaatc caagtgtgt ggcgcgcgc gggcgcgga cccgcgcgc ggcctccacg gggaacgag agatctgtgt ttaactaaga ccatagacag gtgaactcga agccacaat cctcgtctga atcatccgag gcaagagaa aagccacgga cgttgcaaca aaagggaaag tttgggaag gatggagag tggctgtgt atgttctgt ttg MGLMALIVL LIVAGNVLI VAIKTPRLQ TLTNLFMSL ASADLMGLL VVFGATIVV WGRWEYGSFF CELWTSVDVL CVTASIEIIC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLPILMHWR AESDEARRCY NDPKCCDFVT NRAYAIASV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERRELGPA RPPSPSPSPV PAPAPPPGP RPAANAATAP LANGRAGKRR PSRLVALREQ KALKTLGLIM GVFTLCWLPF FLANVVKAFH RELVPDRLEFV FFNWLGANS AFNPIYCRS PDFRKAFOGL LCCARRAARR RHATHGDRPR ASGCLARPQP PPSPGAASDD DDDVVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRP FASESKV actgggaagc ggccttctca gagcacggc tggaactggc aggcacggc agcccttagc A acccgacaag ctgagtgtgc aggcagatc cccaccacac ccacaccaca gccgctgaat gagcttcca ggcgtccgct cgcggccgc agagcccgcc cgtgggtccg cccgctgag cgccccagc cagtgcgctt acctgccaga ctgcgcgcga tggggcaacc cgggaacggc agcgccttct tgcgtgcacc caatagaagc catgcgcgc accacacgt caccagcga agggacgag tgtgggtgtt gggcatggc atcgtcatgt ctctcatgt cctggccatc gtgtttggga atgtgtgtt catcacagcc attgccaagt tcgagcgtct gcagacggtc accaaactt tcaacttct actggcctgt gctgatctgg tcatggcct ggcagtgggtg ccctttgggg ccgccatat tcttatgaa atgtggactt ttggcaact ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagacct gtgctgatac </p>	Homo sapiens

52	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtatc gctactttgc cattacttca cttttcaagt accagagcct gctgaccaag aataaggccc gggtgatcat tctgatggtg tggatttgtt caggccctac ctccttctg ccattcaga tgcactggta ccggccacc caccaggaag ccataaactg ctatgccaat gagacctgt gtgacttctt cacgaaccaa gcctatcca ttgaccttc catcgtgtcc ttctacttc cctggtgat catggtcttc gctactcca gggtctttca ggaggccaaa aggcagctcc agaagattga caaatctgag ggcgcttc atgtccagaa ccttagccag gtggagcagg atggcgagac gggcctgga ctccagat ctccaagt ctgcttgaag gagcacaaag ccctcaagac gttaggcatc atcatggca cttcacccct ctgctggctg ccctcttca tcttaacat tctgcatgtg atccagata acctcatcg taaggaaagt tacatccctc taaattggat aggtatgtc aattctggt tcaatccct tatctactgc cggagcccg atttcaggat tgcctccag gacttctgt cctgcgag gctctcttgg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgtg tgtgaagacc tcccaggcac ggaagacttt gtggccatc aagttactgt gcttagcgtt acattgatt cacaaggag gaattgtagt acaaatgact cactgctgta aagcagttt tctactttta aagaccccc ccccccaac agaacactaa acagactatt taacttgag gtaataaact tagaataaaa ttgtaaaaa tgtatagaga tatgcagaag gaaggcctc ctctgcct ttttatttt ttaagctgta aaaagagaga aaacttattt gactgattat ttgtattttg tacagttcag ttcctcttgg catggaattt gtaagtttat gtctaaagag ctttagtctt agaggacctg agtctgctat atttcatga ctttccatg tatctacctc actatacag tattagggtt aatatattgc tgctggtaat ttgtatctga agagatttt ccttccata ccttgagact tgaggatttt gagtatctcg gacctttcag ctgtgaacat ggaactctcc cccactctc ttatttgctc acacgggta ttttaggcag ggaattgagg agcagcttca gttgtttcc cgagcaagg tctaaagttt acagtaata aatgtttga ccatg</p>	Homo sapiens
53	Beta-3 adrenoceptor	NM_000025	<p>FERLQVTNY FITSLACADL VMGLAVVPFG AAHILMKMT SIDLVCVTAS IETLCVIAD RYFAITSEFK YQSLTKNKA RVIIIMWIV SGLTSLPIQ MHWYRATHQE AINCYANETC CDFFTNQAYA IASSIVFYV PLVIMFVYS RVFQAKRQL QKIDKSEGRF HVQNLSQVEQ DGRTHGLRR SSKFCLKEHK ALKTLGIIMG TFTLCWLPFF IWNIVHVIQD NLIRKEYIIL LNWIGYVNSG FNPLIYCRSP DFRIAFQELL CLRRSSLKAY GNGYSSNGNT GEQSGYHVEQ EKENKLLCED LPTGTEFVGH QGTVPDND SQGRNCSTND SLL</p>	Homo sapiens

54	Beta-3 adrenoceptor	NP_000016.1	643	Homo sapiens
gctactgggc tgtgaccaac ccgtgctggtt acgggcacat ggtcaccaaag cgctgcgccc				
ggacagctgt ggtcctgggtg tgggtcgtgt cggcgcgggt gtcgttttgcg cccatcatga				
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tgcgcttgct gcgcggggag ctgggcgct ttccgccga ggagtctccg cgcgcgcgct				
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gcgcgcggcg gccgcggcg ctctgacct tcgggaaca ccggccctg tgcaccttgg				
gtctcatcat ggacacctc actctgtct ggttgacct ttcttggcc aactgtctgc				
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ggctttgcca acggctcgac ggggcttctt ggggagtctt ttagccctga agacaagaa				
gcaacaactc tgttgatcag aactgtgga aaactctgg cctctgttca gaatgagtcc				
catggattc cccgctgtg acacttacc ctccagaacc tgacgactgg gccatgtgac				
ccaaggagg atccttacc agtgggtttt cacctctc ttgctctctg tctgagagat				
gtttctaaa cccagcctt gaactcact cctccctcag tgttagtctc aggtgcccgt				
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ttcccaactca ccttccccag ctacaaaaat ctgtattatc ctctaaagt aaaactggag				
ttac				
LAPWPDLP LPTL APNTANTSG L PGVPWEAALA GALLALAVIA TVGGNLLVIV P				
AIAMTLPRLQ MTNVFVTSIA AADLVMGLIV VPPATIALT GHMPLGATGC ELMTSVDVLC				
VTASIELTICA LAVDRYLAVT NPLRYGALVT KRCARTAVLV VWVVSAAVSF APINSQWVRV				
GADAEQQRCH SNPRCCAFAS NMPYVLLSS VSEYFLPLVM LFVYARVFW ATRQLRLRG				
ELGRFPPEES PPAPSRSLAP APVGTCAPE GVPACGRPA RLLPLREHRA LCTGLIMGT				
FTLCWLPPFL ANVLRALGPP SLVPGPAFLA LNWLGVANSA FNPLYCRSP DFRSAPRLL				

55	688	Opsin, blue-sensitive	NM_001708	<p>CRCGRRLPPE PCAAARPALE PSQVPAARSS PAQPRLCQRL DGASWGVG</p> <p>ggcatccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaata tctcttcagt A</p> <p>ggggccgtgg gatggccctc agtaccacat tgcccctgtc tgggctttct acctccaggc</p> <p>agctttcatg ggcactgtct tctttatagg gtccccactc aatgccatgg tgcgtggtggc</p> <p>cacactggc tacaaaaagt tgcggcagcc cctcaactac attctgttca acgtgtcctt</p> <p>cggaggcttc ctctctgtca tcttctgtgt tctccctgtc ttctgtgcca cgtgtaacgg</p> <p>atacttcgtc ttccgtgcgc atgtttgtgc tttagggggc ttccctgggca ctgtagcagg</p> <p>tctgggttaca ggatgggtcac tggccttctt ggcctttgag cgctacattg tcatctgtaa</p> <p>gcccctgggc aacttcgct tcagctccaa gcatgcactg acggtgggtc tggctacctg</p> <p>gaccattggt attggcgtct ccattcccac ctctcttggc tggagccggt tcatccctga</p> <p>gggacctgag tgttctctgt gccctgactg gtacaccgtg ggcaccaaatt accgcagcga</p> <p>gtcctatacg tggttctctt tcatcttctg ctctcttctg cctctctccc tcatctgctt</p> <p>ctcctacact cagctgctga gggccctgaa agctgttggc gctcagcagc aggagtcagc</p> <p>tacgacccag aaggctgaac gggaggtgag ccgcatgtgt gttgtgattg taggattcctt</p> <p>ctgtgtctgc tacgtgccct acggggcctt cgccatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcttg tcaccattcc ttcattcttc tccaagagt cttgcatcta</p> <p>caatcccatc atctactgct tcatgaataa gcagttccaa gcttgcata tgaagatggt</p> <p>gtgtgggaag gccatgacag atgaatccga cacatgcagc tcccagaaaa cagaagtctc</p> <p>tactgtctcg tctacccaag ttggcccca tggaggacc atattggcc tgtttgcaac</p> <p>agctagaatt aaattttact t</p>	Homo sapiens
56	688	Opsin, blue-sensitive	NP_001699.1	<p>MRKMSEEFY LFKNISSVGP WDGPQYHIAP VWAFYLQAAF MGTVELIGFP LNAMVLVATL P</p> <p>RYKKLRQPLN YILNVVSFGG FLICIFSVFP VFVASCNGYF VFGRHVCALE GFLGTVAGLV</p> <p>TGWSLAFIAF ERYIVICKPF GNFRFSSKHA LTVVLATWTI GIGVISIPFF GWSRFIPEGL</p> <p>QCSCGPDWYT VGTKYRSESY TWFLFIFCFI VPLSLICFSY TQLLRALKAV AAQQQESATT</p> <p>QKAEREVSRM VVMVGSFCV CYVPYAAFAM YMVNNRNHGL DLRLVTIPSF FSKSACIYNP</p> <p>IYYCFMKNQF QACIMRMVCG KAMTDESPTC SSQKTEVSTV SSTQVGPN</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727	<p>gagtatctgg atgtcttggg ttttctccc attctgttct gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact gcatttgaac tgagaagaag</p> <p>aaatattaaa gacacagtct tcagaagaaa tggctcaag gcagcctcac tcacctaatc</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata</p> <p>acacaaaataa aggatggagc ggggacaact ctccaggaat agaagcattg tgtgccatct</p> <p>atattactta tgcgtgtatc atttcagtgg gcatccttgg aatgctatt ctcatacaag</p> <p>tctttttcaa gaccaaacc attgcaaacag ttccaaatat ttctatcacc agcctggctt</p> <p>ttggagatct tttactcttg ctaacttctg tgcacttggg tgaactcac taccttgtag</p> <p>aaggatggtc gttcgggaaga attggttcta aggtgctctc ttctatccgg ctcacttctg</p> <p>ttgggtgtgc agtgttcaca ttaacaaattc tcagcgtgta cagatacaag gcagttgtga</p> <p>agccacttga gcgacagccc tccaatgcca tccgtgaagc ttgtgtaaaa gctgggtgag</p> <p>tctggatcgt gtctatgata ttgtctctac ctgaggctat attttcaaat gtatacactt</p> <p>ttcggagatcc caataaaaa atgacatttg aatcatgtac ctcttatcct gtctctaaga</p> <p>agctcttgca agaaatacat tctctgctgt gcttcttagt gttctacatt attccactct</p> <p>ctattatctc tgtctactat tcttggattg ctaggaccct ttacaaaagc acctgaaca</p>	Homo sapiens

58	692	Bombesin Receptor Subtype-3	NP_001718.1	<p> tacctactga ggaacaaagc catgcccgtga agcagattga atccccaaag agaattggcca gaacggattt ggtgttggtg gctctgtttg cctctgtgtg gttgccaaat cacctcctgt acctctacca ttcaataact tctcaaacct atgtagacc cctgcccatt catttcattt tcaccatttt cctcgggtt ttggctttca gcaattcttg cgtaaacccc ttgtctctct atggctgag caaaagcttc cagaagcatt ttaaagctca ttgtttctgt tgcaaggggg agcgccctga gctcctgtt gctgacacct cctgacacac cttggctgtg atgggaaacgg tcccgggac tgaggagcata cagatgtctg aaattagtg gacctgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgtgc ttctctctcc agcgtgtgta tccgactcta agctgtgtgc agg GILGNAILIK VFFKTKSMQT QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P KVLSFIRLTS VGVSVFTITI LSADRYKAVV KPLERQPSNA ILKTCVRKAGC VWIVSMIFAL PEAIFSNVYT FRDPKNMTF ESCTSYPSK KLLQEIHSLL CFLVYTIPL SIISVYSLI ARTLYKSTLN IPTEEQSHAR KQIESRKRIA RTVLIVLALF ALCWLPNHLL YLYHSFTSQT YVDPAMHFI FTIESRVIAF SNSCVNPAL YWLSKSFQKH FKAQLFCCKA ERPEPPVADT SLTLAVMGT VPGTGSIQMS EISVTSFTGC SVKQAEDRF gctgccacct cctagaggc acctggcggg gacctctca acataagaca gtgaccagtc A tggtgactca cagccggcac agccatgaac taccggctaa cgctggaaat ggacctcgag aacctggagg acctgtctg ggaactggac agattggaca actataacga cacctccctg gtgaaaaatc atctctgccc tgccacagag ggcccctca tggcctctt caaggccgtg ttcgtgcccc tggcctacag cctcatcttc cctcggcg tgatcgcaa cgtcctgggt ctggtgatcc tggagcggca cggcagaca cgagattcca cgagacctt cctgttccac ctggccgtgg ccgacctct gctgtcttc atctgacct ttgccgtggc cgagggtct gtggcgtggg tcctggggac ctctctctg aaaaactgta ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcctggg accgtacct ggccattgtc cacgccgtcc atgcctaccg ccaccgcgc ctctctcca tccacatcac ctgtgggacc atctggctgg tgggtctct ccttgcttg ccagagattc tcttgccaa agtcagccaa ggccatcaca acaactccct gccagttgc acctctcc aagagaacca agcagaaacg catgccgtgt tcacctccg attcctctac catgtggcg gattcctgt gccatgctg gtgatgggt ggtgctacgt gggggtagt cacaggttg gccaggcca gcggcgccct cagcggcaga aggcagtcag ggtggccatc ctggtgaca gcatctctt cctctgtgg tcacctacc acatgctcat ctctctgac acctgggga ggctgaagg cgtggacaa acctgcaagc tgaatggctc tctcccgct gccatcaca ttgtgtgatt cctgggcctg gccactgct gcctcaacc catgctctac acctgccc gctgaagt ccgagtgac ctgtcgccgc tcctgacga gctgggtgt accggcctg cctccctgt ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctt caccacgttc taggtccag tgtcccttt tattgtgct ttctctgg gcaggcagtg atgtggatg ctcttccaa caggagctgg gatacctagg gctcaccgt gctaaagtg tctaggagt atctcattht ggggtagcta gaggaaccaa cccccattc tagaacatcc ctgccagctc ttctgccggc cctggggcta ggctggagcc caggagcgtc aaaggcacag tgaaggctgt ccttaccat ctgaccccc ctgggctgag agaacctcac gcacctccca </p>	Homo sapiens
59	729	CXC Chemokine Receptor 5	NM_001716	<p> acataagaca gtgaccagtc A cgctggaaat ggacctcgag cacctccctg caaggccgtg cgtcctgggt cgagacctt cgagggtct caaagtcaac accgtacct tccacatcac tcttgccaa agtcagccaa gattcctgt gccatgctg gccaggcca gcggcgccct gcatctctt cctctgtgg ggctgaagg cgtggacaa tggtgtgatt cctgggcctg ccgagtgac ccagctctt caccacgttc gcaggcagtg tctaggagt tagaacatcc ctgccagctc aaaggcacag agaacctcac gcacctccca </p>	Homo sapiens

60	729	CXC Chemokine Receptor 5	NP_001707.1	<p> MNYPLTLEMD LENLEDLFEW LDRLDNVDNT SLVENHLCPA TEGPLMASFK AVFVPVAYSL P IFLLGVIGNV LVLVILERHR QTRSSTETFL FHLAVADILL VFILPFAVAE GSVGWVLGTF LCKTVIALHK VNFYCSSILL ACIAVDRYLA IVHAVHAVRH RRLLSIHITC GTIWLVGFL ALPEILFAKV SQHHNNSLP RCTFSQENQA ETHAWFTSRF LYHVAGFLLP MLVMGWCYVG VVRRLRQAQR RPQRQKAVRV AILVTSIFEL CWSPYHIVIF LDTLARLKAV DNTCKLNGSL PVAITMCEFL GLAHCCCLNPM LYTFAGVKFR SDLSRLTLKL GCTGPASLCQ LFPSWRRSSL SESENATSLT TF ggcagcgcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagaag gtgaacgaga gggcctttgg gggccaaactg ctgccccctc tgtactcctt ggtattgtc attggcctgg ttggaacat cctgggtggtc ctggtccttg tgcaatacaa gaggctaaaa aacatgacca gcatcacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctctccttct ggtcgcacta caagtgaag gatgactggg tttttggtga tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacagcg agatctttt catcatcctg ctgacgattg acaggtacct ggccatcgtc cagccgtgt ttgacctggc ggcacggacc gtcacttttg gtgtcatcac cagcatcatc atttgggccc tggccatctt ggcttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcac aaagcctacg agagtggagc ctgtttcagg </p>	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	<p> ggaagcccta agacgtcct tttttctctg agtatcctc cgcaagctgg gtaatcgatg ggggagtctg aagcagatgc aaagaggcaa gaggctggat ttggaatttt cttttaata aaaaggcacc tataaaacag gtcaatacag tacagagcag acagagaccc ccggaacaaag cctaaaaatt gtttcaaat aaaaaccaag aagatgtctt caaaaaaaaa aaaaaaaaaa aaa </p>	Homo sapiens

Homo sapiens

64	737	C-C Chemokine Receptor 3	NP_001828.1	MTSLDVTET KYRRLRIMTN IFFIILLTID TLCALYPED IFVIMAVFFI YAFVGERFRK cgggggtttt tctctcattt agaaagcaaa aaatgaaccc atctgtatga tcttccgtcc ccttccatgt actctctatt atgaagcaaa	FGTTSYDDV IYLLNLASD RYLAIVHAVF TVYSWRHFHT FWTPYNVAIL YLRHFFHRHL ggtctctctt gctgtctctt cagggatata cagggatata aagtatcccc cccactgtat cctgttcaaa ctcggatctg gggttttggg tggttatcag tgacacgggt ctacatgggt ctgagcgcaa ttctcagctc tttgctactc cgggtgaagat tagtgcctct gatacttgga atccccatcat aaacctgcag ctgacacccc tgtaggaaaa ctttaaaaatt	accattctct aggaatcatc ccattcttcc tggtgtcatg ctcggctttt gctcagctac acaggcactt aagaacacag tcagatgcag cttccacact ALMAQFVPL IHYVRGNWV VITSIVTWGL PLLVMAICYT LSSYSILFG LMHLGRYIPF gcttctctt gttgggcccc cagatatcca aagccttgca tcctgtgttt tacaagcggc ctcttcgtgt ctaggctctgt ttgtctatgc agggcaagga ttcgcctccc tgcaaaacca aacattctcg aggaccttgc gtggtgggtc ctggtggagc cagggccacag ctggggggaga gtactctctt gtgctctgcc tcacacgcagt gaaatgcaga ggtaagagat tctctatcct	tctgagaatg aggaatcatc tatcaatcca ctggtgacag ctcggctttt ctcggatgag gctcagctac ctctgtctct aaaattgcct cacctctaaa YSLVFTVGLL FGHGMCKLLS AVLAALPEFI GLIKTLRCP LVMLVTEVIA SVSPSTAEPE ccttctctt caacattgac gaggagcctg agcatatac catcaaggca tctgcttgga gactgatgtg tttttggggc ttcctggatg tgatagatgc tggggtcatc accagtttgg tctgttcacg cactctctct cccccttagg aatgagaag gttctggaca tcaggactgc ttttgttcac gtacatccta gtactcttca gtctctctgg ccacctgga gtcaatgaac ctctgagcca gcaggcagct	gtctcgttct tgagtgccc tggttttctat tcttatttgg aggtgatcgc ggttccggaa acatccccatt cagagccgga gaccaaggag aaacttccac GNVVVMILI GFYHTGLYSE FYETEELFEE SKKYYKAIRL YSHCCMNPVI LSIVF cctccctccc aagtcacatt tagagtttaa agcaattact tttggggagg aatctctgtg tacctgctca tactatgcag tacttgggtg ctggcgatag accagtttgg acttgttata acgtggaagg atcatgctgt aagaacaagg ccttacaaca acctttgaaa tgctgacctta cagctcttca atttactctg catgatgctc tcagagctta gaaggcttac cactagacaa	Homo sapiens
65	738	C-C Chemokine Receptor 4	NM_005508	cgggggtttt tctctcattt agaaagcaaa aaatgaaccc atctgtatga tcttccgtcc ccttccatgt actctctatt atgaagcaaa	FGTTSYDDV IYLLNLASD RYLAIVHAVF TVYSWRHFHT FWTPYNVAIL YLRHFFHRHL ggtctctctt gctgtctctt cagggatata cagggatata aagtatcccc cccactgtat cctgttcaaa ctcggatctg gggttttggg tggttatcag tgacacgggt ctacatgggt ctgagcgcaa ttctcagctc tttgctactc cgggtgaagat tagtgcctct gatacttgga atccccatcat aaacctgcag ctgacacccc tgtaggaaaa ctttaaaaatt	ALMAQFVPL IHYVRGNWV VITSIVTWGL PLLVMAICYT LSSYSILFG LMHLGRYIPF gcttctctt gttgggcccc cagatatcca aagccttgca tcctgtgttt tacaagcggc ctcttcgtgt ctaggctctgt ttgtctatgc agggcaagga ttcgcctccc tgcaaaacca aacattctcg aggaccttgc gtggtgggtc ctggtggagc cagggccacag ctggggggaga gtactctctt gtgctctgcc tcacacgcagt gaaatgcaga ggtaagagat tctctatcct	tctgagaatg aggaatcatc tatcaatcca ctggtgacag ctcggctttt ctcggatgag gctcagctac ctctgtctct aaaattgcct cacctctaaa YSLVFTVGLL FGHGMCKLLS AVLAALPEFI GLIKTLRCP LVMLVTEVIA SVSPSTAEPE ccttctctt caacattgac gaggagcctg agcatatac catcaaggca tctgcttgga gactgatgtg tttttggggc ttcctggatg tgatagatgc tggggtcatc accagtttgg tctgttcacg cactctctct cccccttagg aatgagaag gttctggaca tcaggactgc ttttgttcac gtacatccta gtactcttca gtctctctgg ccacctgga gtcaatgaac ctctgagcca gcaggcagct	gtctcgttct tgagtgccc tggttttctat tcttatttgg aggtgatcgc ggttccggaa acatccccatt cagagccgga gaccaaggag aaacttccac GNVVVMILI GFYHTGLYSE FYETEELFEE SKKYYKAIRL YSHCCMNPVI LSIVF cctccctccc aagtcacatt tagagtttaa agcaattact tttggggagg aatctctgtg tacctgctca tactatgcag tacttgggtg ctggcgatag accagtttgg acttgttata acgtggaagg atcatgctgt aagaacaagg ccttacaaca acctttgaaa tgctgacctta cagctcttca atttactctg catgatgctc tcagagctta gaaggcttac cactagacaa	Homo sapiens

66	738	C-C Chemokine Receptor 4	NP_005499.1	gtccagcctg gcaagggttc acctgggctg aggcattcct cctcacacca ggcttgcttg caggcatgag tcagctgat gagaactctg agcagtgtt gaatgaagtt gtaggtaata ttgcaaggca aagactattc ccttctaacc tgaactgatg ggtttctcca gaggaatgtg cagagtactg cctgtaggag taaactgcta cctttgtctg tggcaaatgg gccccg MNPDIADTT LDESIVSNY IYESIPKPT KEGIKAFGL FLPLYSLVF VGLLGNV P VIVLFYKRL RSMTDVILN LAISDLLEVF SLFPWGYAA DQWVFLGLC KMISWMLVG FYSGIFVML MSIDRYLAIV HAVSLRART LTYGVITSLA TWSVAVFASL PGFLFSTCYT ERNHTYCKTK YSLNSTWKV LSSLEINILG LVIPLGLMLF CYSMIIRTIQ HCKNEKNKA VKMIFAVVVL FLGFWTPYNI VLFLETVEL EVLQDCTFER YLDYAIQATE TLAFVHCCLN PIIYFLGEK FRKYILQLFK TCRGLFVLCQ YCGLLQIYSA DTPSSSYTQS TMDHDLHDAL gtgagacagg ggtagtgcga gcccgggcac agccttctct tgtgggttta cgcgccagag A agcgtcatgg acctgggga accaatgaaa agcgtgctgg tgggtgctct ccttgtcatt ttccaggtat gccgtgtgta agatgaggtc acggacgatt acatcggaaga caacaccaca gtggactaca ctttgttcga gtctttgtgc tccaagaagg acgtcgga a ctttaaaagcc tggttcctcc ctatcatgta ctccatcatt tgtttctggt gcctactggg caatgggctg gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctactgctc aacctggcgg tggcagacat cctctctctc ctgaccttc ccttctgggc ctacagcgcg gccaaagtcc gggctctcgg tgtccacttt tgcaagctca tctttgceat ctacaagatg agcttcttca gtggcatgt cctacttctt tgcatcagca ttgaccgcta cgtggccatc gtccagcctg tctcagctca ccgccacct gcctcgctcc tctctacag caagctgtcc tgtgtgggca tctggatact agccacagtg ctctccatcc cagagctcct gtacagtgc ctccagagga gcagcagtg gcaagcagtg cgtgctctc tcatcacaga gcatgtggag gcctttatca ccattccaggt ggccagatg gtgctggct tctgggtccc cctgctggc atgagcttct gttacctgt catcatccgc acctgtctc aggcacgaa ctttgagcgc aacaaggcca tcaagggtgat catcgtctg gtctgtgtct tcatagtctt ccagctgccc tacaatggg tggctcctgg ccagacgggt gccaaactca acatcacag tagcacctgt gagctcagta agcaactcaa catcgctac gacgtcacct acagcctggc ctgctccgc tgtgctgca acctttctt gtacgccttc atcgcgctca agttccgcaa cgtctcttc aagctcttca aggacctggg ctgcctcagc caggagcag tccggcagtg gtcttctgt cggcacatcc ggcgctctc catgagtgt gaggcgaga ccaccaccac cttctccca taggcgactc tctgctctgg actagaggga cctctccag ggtccctggg gtgggtag ggagcagatg caatgactca ggacatccc ccgccaaaag ctgctcaggg aaaagcagct ctccctcag agtgcaagcc ctgctccaga agttagcttc accccaatcc cagctacctc aaccatgcc gaaaagaca gggctgataa gctaacacca gacagaaac actgggaaac agaggctatt gtccctaaa ccaaaaactg aaagtgaag tccagaaact gttccacct gctggagtga aggggccaag gaggtgagt gaaagggcg tggagtggtc ctgaagagtc ctctgaatga acctctggc ctccacaga ctcaaatgct cagaccagct cttccgaaa ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaa cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tcttactgt cctccaaagc agcgggaatg gcagtgcca gcggcctca aagcacact catccctca ctgcccgt cgccctcca ggctctcaac aggggagagt gtggtgtttc ctgcaggcca	Homo sapiens
67	741	C-C Chemokine Receptor 7	NM_001838	gtgagacagg ggtagtgcga gcccgggcac agccttctct tgtgggttta cgcgccagag A agcgtcatgg acctgggga accaatgaaa agcgtgctgg tgggtgctct ccttgtcatt ttccaggtat gccgtgtgta agatgaggtc acggacgatt acatcggaaga caacaccaca gtggactaca ctttgttcga gtctttgtgc tccaagaagg acgtcgga a ctttaaaagcc tggttcctcc ctatcatgta ctccatcatt tgtttctggt gcctactggg caatgggctg gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctactgctc aacctggcgg tggcagacat cctctctctc ctgaccttc ccttctgggc ctacagcgcg gccaaagtcc gggctctcgg tgtccacttt tgcaagctca tctttgceat ctacaagatg agcttcttca gtggcatgt cctacttctt tgcatcagca ttgaccgcta cgtggccatc gtccagcctg tctcagctca ccgccacct gcctcgctcc tctctacag caagctgtcc tgtgtgggca tctggatact agccacagtg ctctccatcc cagagctcct gtacagtgc ctccagagga gcagcagtg gcaagcagtg cgtgctctc tcatcacaga gcatgtggag gcctttatca ccattccaggt ggccagatg gtgctggct tctgggtccc cctgctggc atgagcttct gttacctgt catcatccgc acctgtctc aggcacgaa ctttgagcgc aacaaggcca tcaagggtgat catcgtctg gtctgtgtct tcatagtctt ccagctgccc tacaatggg tggctcctgg ccagacgggt gccaaactca acatcacag tagcacctgt gagctcagta agcaactcaa catcgctac gacgtcacct acagcctggc ctgctccgc tgtgctgca acctttctt gtacgccttc atcgcgctca agttccgcaa cgtctcttc aagctcttca aggacctggg ctgcctcagc caggagcag tccggcagtg gtcttctgt cggcacatcc ggcgctctc catgagtgt gaggcgaga ccaccaccac cttctccca taggcgactc tctgctctgg actagaggga cctctccag ggtccctggg gtgggtag ggagcagatg caatgactca ggacatccc ccgccaaaag ctgctcaggg aaaagcagct ctccctcag agtgcaagcc ctgctccaga agttagcttc accccaatcc cagctacctc aaccatgcc gaaaagaca gggctgataa gctaacacca gacagaaac actgggaaac agaggctatt gtccctaaa ccaaaaactg aaagtgaag tccagaaact gttccacct gctggagtga aggggccaag gaggtgagt gaaagggcg tggagtggtc ctgaagagtc ctctgaatga acctctggc ctccacaga ctcaaatgct cagaccagct cttccgaaa ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaa cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tcttactgt cctccaaagc agcgggaatg gcagtgcca gcggcctca aagcacact catccctca ctgcccgt cgccctcca ggctctcaac aggggagagt gtggtgtttc ctgcaggcca	Homo sapiens

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p>ggccagctgc ctccgctga tcaagccac actctggctt ccagatggg gatgacatgc actcagctct tggctccact gggatgggag gagagacaa gggaaatgtc agggcgggg aggtgacag tggcgccca agccacgag cttgttctt gttcttgc acagggactg aaaacctct ctcattgtt ctttcgatt gtaagaga gcaacatttt acccacacac agataaagt ttcccttgag gaacacacag ctttaaaag MDLGRPKSV LVVALLVIFQ VCLCQDVED DYIGNTVTD YTLFESLCK KDVNRKWF P LPIMYSIICF VGLLGLVW LTYIYFKRLK TMTDTYLNL AVADILFLIT LPFWAYSAAK sapiens SWVFGVHFC LIFAIYKMF FSGMLLLCI SIDRYVAIVQ AVSAHRHAR VLLISKLSV GIWILATVLS IPELLYSDLQ RSSSEQMRC SLITEHVEAF ITIQVAQWVI GFLVPLLAMS FCYLVIIRTL LQARNFERNK AIKVIIVV VFIVFQLPYN GVLAQTVAN FNITSSTCEL SKQLNIAYDV TYSLACVRCC VNPFLYAFIG VKERNDLFKL FKDLGCLSQE QLRQWSSCRH IRRSMSVEA ETTTTFSP</p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p>TTTAATTATA AAACTTTAT TGGANTAGCA TGTTAGCACC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAATGATGT CTGACCTCCT TATATATGA AAAATATAC CTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTGA AGTTTTAAC ATCGATGATG GGTCTCCAGT TGTTCATCAA CCCATTGTA ATAGCTGAA CGGTTCTGAA TCCTAATAGT TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAAT ACCTGATGGG CTTCTTGAAG GACTAGAGCA GTGTGATTC AAAACAGAAC AAGAAATCAC GTCAGTTTAT TGCCAATAT GCTGTTGCA ACACCTAGAA CACNAATGACT GGAGACACAG TTGTGCGTGC A CTGGCAAC CTCCAGCTG TGTCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAGA ATATTTTAAAC ATCATTAATG AGGCTCCAGT TATTCAATCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCCTATAA ATGACACAGT GAAA</p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac ttgtgaaga A aggaattggc aacactgaaa cctccagAAC aaaggctgc actaaggctc cgctgccttg atgattata cactgacct cagtgtaga acagtgaacc actactata cctgatatac ttctcaagcc cctgtgagc ggaacttatt cagacaaatg gcaagtgtc ccttgctgc ttttattgcc tcctgtttgt attcagtctt ctgggaaaca gcctgggtcat cctggctcct gtggtctgca agaagctgag gagcatcaca gatgatacc tcttgaacct ggcctgtct gacctgttt ttgtctctc cttcccttt cagacctact attcgtgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgtc ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtgag aggtacctgg ctgtgttcca tgcctgtgat gccctaaagg ttaggacgat caggatgggc acaagctgt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatgggtgt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac ttgtgaaga A aggaattggc aacactgaaa cctccagAAC aaaggctgc actaaggctc cgctgccttg atgattata cactgacct cagtgtaga acagtgaacc actactata cctgatatac ttctcaagcc cctgtgagc ggaacttatt cagacaaatg gcaagtgtc ccttgctgc ttttattgcc tcctgtttgt attcagtctt ctgggaaaca gcctgggtcat cctggctcct gtggtctgca agaagctgag gagcatcaca gatgatacc tcttgaacct ggcctgtct gacctgttt ttgtctctc cttcccttt cagacctact attcgtgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgtc ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtgag aggtacctgg ctgtgttcca tgcctgtgat gccctaaagg ttaggacgat caggatgggc acaagctgt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatgggtgt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens

72	742	C-C Chemokine Receptor 8	NP_005192.1	MDYTLDSLVT TVTDYVYPDI VVCCKLRISIT DVLNLLNALS DLLEFVSFPF MFFITLMSVD RYLAVVHAVY TLKWIFITNF KMNILGLLIP FTIFMFCYIK ILHQLKRCQN HNKTKAIRLV THCCVNPVIY VDYIL	atcctgcacc agctgaagag gtgtcaaaaac cacacaaga ccaaggccat caggttggtg ctcattgtgg tcattgcac tttacttttc tgggtcccat tcaacgtggt tcttttccctc acttccctgc acagtatgca catcttggtat ggatgtagca taagccaaca gctgacttat gccaccatg tcacagaaat catttccctt actcactgct gtgtgaaccc tgttatctat gcttttgttg gggagaagtt caagaacac ctctcagaaa tatttcagaa aagttgcagc caaatcttca actactagag aagacaatg cctagggaga gctgtgaaaa gtcatactcc tgccagcagc actctcccg ttctccagc gtgactaca ttttgtgagg atcaatgaag actaaatata aaaaacattt tcttgaatgg catgctagta gcagtgcga aaggtgtggg tgtgaaggt ttccaaaaa agttcagcat gaaggtgccc atatatgttg ttgccaacac ttaaacaca atgactggag acatagtgtt gcatgcttgg cacaacatca agcctgtgat tgtgtttatt gatgatgttg aacaagtgtt aactttaag gattctgtat gccaaagtga aaaaaagat gctgcacct ctctcatatgc aaaaatatac cttcagagac tgtcagtagg ctggaagaag tggatatgta agtttgaca tcaatgatga ggctccagtt gtctatgcat tgactgatgg tgaatggct ggagtgttc tgaatcaagg tgattgtgat tatagtga atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaatat ttgacaggct tatggaaga ctacagcagc acgattcat aacagaacaa gaaattatct cagcttataa aatcaaacag agacttctag acaaaaacca ttgttgatga ggcagatgcc tctagaagag acgtttaaaa gccatcaaac caaatgcctc atcttccctg gaggaccac ttcctgatcc ctcaactgtg tctgatgttt ctctcatgt aagaaataaa aataaaaaat aaaaaatat atattggat tgaactacag gaaaaata aaaaataat agtggacagt aaccttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgtatg ttgttattaa cagctgatac aggtattctg ctgagctac tgctgacctag ttacctgaa cacgtttttt cactattaat gggtcgtcat atttttact ttttaagtact tacgtgtgag taagtgaag aaaatgattg cttatcagta gtatcaatga tttactcaat atctgaatca ccttgattca gaaccattc agctgtttca ccatcagtca atgaataaca gcctcatga tgtcaaaaac ttcaatatcc acttcttca gcctactgta gactctggaa gtatactttt tgcatatgta aggaagtcag atttttttt	QTNGKLLAV FYCLLFVFSL LGNSLVILVL P QTYLLDQWV FGTVMCKWS GFYIGFYSS TTLCLAVWLT AIMATIPLLV FYQVASEDGV ILHQLKRCQN HNKTAKIRLV GCSISQQLTY ATHVTEIISF THCCVNPVIY CQHQSSRSS VDYIL	Homo sapiens
73	752	CXC Chemokine Receptor 3	NM_001504	ccaaccaca gaccctaacg agaggggag gcagcacacc accagcagc cagagcacca A gcccagccat ggtcctcag gtgagtacc accaagtgt aatgacgcc gaggttgccg ccctcctgga gaacttcagc tcttccctatg actatggaga aaacgagagt gactcgtgct gtacctccc gccctgcca caggacttca gcctgaact cgaccgggccc ttcctgcccag ccctctacag cctcctcttt ctgctggggc tgctgggcaa cggcgcggtg gcagccgtgc tgctgagccg gcggacagcc ctgagcagca ccgacacctt cctgctccc ctgactgtag cagacagct gctgggtgctg aactgcgcg tctgggagc ggacgtgcc gtccagtggg tctttggctc tggcctctgc aaagtggcag gtgcccctctt caacatcaac ttctacgcag		Homo sapiens	

74	CXC Chemokine Receptor 3	NP_001495.1	<p>gagccctcct gctggcctgc atcagctttg accgctaccc gaacatagtt catgccaccc</p> <p>agcttaccc cggggggccc cggcccgccg tgacctcac ctgcttggt gtctgggggc</p> <p>tctgctgct tttgcccctc ccagacttca tcttctgtc ggcacacac gagagcgcc</p> <p>tcaacgccac ccactgccaa tacaacttc cacagtggg ccgacggct ctgcggtgc</p> <p>tgcagtgtt ggtggcttt ctgctgccc tgctgtcat ggcctactgc tatgccaca</p> <p>tctggccgt gctgtgggt tccagggccc agcgccctc tcacctggt cggctgggtgg</p> <p>tggtggtcgt ggtggccttt gccctgtct gacccctca tcacctggt gtgctgggtg</p> <p>acatctcat ggacctgggc gctttggccc gaaacttgg ccgagaaagc aggttagag</p> <p>tgccaagtgc ggtcaactca ggcctgggt acatgactg ctgctcaac ccgctgctct</p> <p>atgctttgt aggggtcaag ttcggggagc ggatgggt gctgctttg cgcctgggt</p> <p>gccccaaaca gagaggctc cagaggcagc catgctctc ccgcccggat tcatectggt</p> <p>ctgagacctc agaggctcc tactgggct tgtgaggcc gaatcgggc tccccttgc</p> <p>cccaatctc tgcctcccg gactccaggc tctccctcc ctctgcccgc tctgctctc</p> <p>cccaatctc tgcctcccg gactccaggc tctccctcc ctctgcccgc tctgctctc</p> <p>gcccacctc cagctctgag gactgacca ctgctgctc ttgctgaaa ctaaaactc</p> <p>tgccgcccga ggtggctgccc tggagcccca ctgctctct cattggaaa ctaaaactc</p> <p>atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca</p> <p>cagccaggc ctccagctca gcagtactg tggccatggt ccccaagacc tctatattg</p> <p>ctctttatt tttatgtcta aaatcctgct taaaacttt caataacaa gatcgctcagg</p> <p>acaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa</p> <p>acaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa</p> <p>MDLEVDHQV LNDAEVAALL ENFSSSYDYG ENESDSCCTS PPCQDFSLN FDRAFLPALY P</p> <p>SLFLGLLG NGAVAAVLLS RRTALSSTDT FLHLAVADT LLVLTPLWA VDAVQWVFG</p> <p>SLGCKVAGAL FNINIVAGAL LLACISFDY LNIVHATQLY RRGPPARVTL TCLAVWGLCL</p> <p>LFALPFIPL SAHDERLNA THCOYNFQV GRTALRVQL VAGFLPLLV MAYCYAHILA</p> <p>VLLVSRGQRR LRAMRLVVV VVAFALCWTP YHLVVLVDIL MDLGALARNC GRESRVDAK</p> <p>SVTSGLGVMH CCLNPLLYAF VGKFRERMW MLLLRGCPN QRLQRPSS SRRDSSWSET</p> <p>SEASYSGL</p>	Homo sapiens
75	CXC Chemokine Receptor 4	NM_003467	<p>gtttgttggc tgcggcagca ggtagcaaa ggtgagctg ggcctgagt ctccagtagc A</p> <p>caccgatct ggagaaccag cgtttaccat ggaggggagc agtatataa cttcagataa</p> <p>ctacaccgag gaaatgggt caggggacta tgactccatg aaggaacct gttccgtga</p> <p>agaaaatgct aatttcaata aaatctctt gccaccatc tactccatc tcttctaac</p> <p>tggtattgt ggcaatggt tggctatctt ggtcatggt taccagaaga aactgagaag</p> <p>catgacggac aagtacaggc tgcacctgtc agtggccgac ctctctttg tcatcacgt</p> <p>tccctctgt gcagtgtatg ccgtggcaaa ctggtacttt gggaacttcc tatgcaaggc</p> <p>agtccatgtc atctacacag tcaacctta cagcagtgc ctatctctg ccttcatcag</p> <p>tctggaccgc tacctggcca tctgccagc caccacagc cagaggccaa ggaagctgtt</p> <p>ggctgaaaag gtggtctatg ttggcgtctg gatccctgac ctctgctga ctatcccca</p> <p>cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gcttctaccc</p> <p>caatgacttg tgggtggttg tgttccagt tcagcacatc atggttggcc ttatccctgc</p> <p>tggtattgtc atctgtctt gctattgcat tatcatctcc aagctgtcac actccaagg</p> <p>ccaccagaag cgaaggccc tcaagaccac agtcatctc atcttggtt tcttcgctg</p>	Homo sapiens

76	753	CXC Chemokine Receptor 4	NP_003458.1	<p>ttggtgcct tactacattg ggatcagcat cgactccttc atcctcctgg aatcatcaa gcaagggtgt gagttgaga acactgtgca caagtgatt tccatcacg aggccttagc ttttctccac tgtgtctga acccatcct ctatgcttc ctggagcca aatttaaac ctctgccag cagcactca cctctgtgag cagagggtcc agcctcaaga tccctccaa aggaagcga ggtggacatt catctgttc cactgagctt gactctcaa gtttcactc cagctaacac agatgataaa gactttttt tatacagataa ataactttt ttaagttac acattttca gatataaaag actgaccaat attgtacagt ttttattgct tgttgattt ttgtcttgtg tttctttagt ttttgtgaag ttttaattgac ttattatat aaatttttt tgtttcatat tgatgtgtgt ctaggcaga cctgtggcca agttcttagt tgctgtatgt ctctgtgtag gactgtagaa aagggaaactg aacattccag agcgtgtagt gaatcacgta aagctagaaa tgatccccag ctgtttatgc atagataatc tctccattcc cgtggaactg ttttctgtt cttaagacgt gattttgctg tagaagatgg cacttataac caaagcccaa agtgttatag aaatgctggt ttttcagttt tcaggagtgg gttgatttca gcacctacag tgtacagtct tgtattaagt tgttaataaa agtacaatgtt aaacttactt agtgttatg MEGISIYTSN NYTEEMSGD YDSMKPCFR EENANFNKIF LPTIYSIIFL TGIVGNGLVI P LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWYFGNLFCK AVHVIYTVNL YSSVLILAFI SLDRYLAIVH ATNSQRPRL FQHMVGLIL PGIVILSCYC IIISKLHSHK GHQKRKALKT DDRYICDRFY PNDLWVVVFQ FQHMVGLIL PGIVILSCYC IIISKLHSHK GHQKRKALKT TVILILAFFA CWLPYIIGIS IDSFILLEII KQCEFEFNTV HKWISITEAL AFFHCCLNPI LYAFLGAKFK TSAQHALLTSV SRGSSLLKLS KGRGGHSSV STESESSFH SS</p>	Homo sapiens
77	755	Complement Component 3a Receptor 1	NM_004054	<p>atggcgctctt tctctgtcga gaccaatttca actgacctac tctcacagcc atggaatgag A ccccagtaa ttctctccat ggtcatttact agccttactt ttttactggg attgccaggc aatgggctgg tgctgtgggt ggctggcctg aagatgcagc ggacagtga cacaatttg ttctccacc tcaccttggc ggacctctc tgctgctct ccttgccctt ctgctggct cacttggctc tccagggaca gtggccctac ggcaggttcc tatgcaagct catcccccc atcatgttcc tcaacatgtt tgccagtgc ttcctgctta ctgccattag cctggatcgc tgtcttgtgg tattcaagcc aatctgtgtt cagaatcatc gcaatgtagg gatggcctgc tctatctgtg gatgtatctg ggtgtgtggt tttgtgatgt gcatctcctg gttcgtgtac cgggaaatct tcaactacaga caaccataat agatgtggct acaaatttgg tctctccagc tcattagatt atccagactt ttatggagat ccactagaaa acaggtctct tgaaaacatt gttcagccgc ctggagaaat gaatgatagg ttagatcctt cctctttcca acaaatgat catccttggg cagtccccac tgtcttccaa cctcaaacat ttcaagacc ttctgcagat tcactcccta ggggttctgc taggttaaca agtcaaaatc tgtattctaa tgtatttaa cctgtctgatg tggctcacc taaaatcccc agtgggttct ctattgaaga tcacgaaacc agccactgg ataacttga tgcctttctc tctactcatt taaagctgtt ccttagcgtt tctagcaatt ccttctacga gtctgagcta ccacaaggtt tccagatta ttacaattta ggccaatca cagatgacga tcaagtcca acacccctcg tggcaataac gatcactagg ctagtgtgg gtttctgctt gcctctgtt atcatgatag cctgttacag cttcattgtc ttccgaatgc aaaggggccg cttcgccaag tctcagagca aaacctttcg agtggccgtg gtgtgtgtg ctgtcttctt tgtctgtgtg actccatacc acatttttgg agtctgtca ttgtcttactg accagagaaac tcccttgggg aaactctga tgccttggga tcatgtatgc</p>	Homo sapiens

78	755	Complement Component 3a Receptor 1	NP_004045.1	actgtgtga atgtgtctag catgtccaa tagttgcttt aatcccttcc ttatgcctt cttgggggaaa gatttagga agaaagcaag gcagtcatt cagggcaatc tggaggcagc cttcagtgag gagctcacac gttccaccca ctgtccctca acaaatgtca ttccagaag aatatgtaca actgtgtga MASFSAETNS TDLISQWNE PPVILSMVIL SLTFLGLPG NGLVLMVAGL KMQRTVNTIW P FLHTLADLL CCLSLPFLSLA HLALQGWPY GRFLCKLIPS IIVLNMFAV FLTLAISLDR CLVVEKPIWC QNHRNVGMAC SICGCIWVA FVMCIPFVY REIFTDNHN RCGYKFGLS SLDYPDFYGD PLENRSLENI VQPPGEMNDR LDPSSFQND HPWTVPVFO QTFQRPSSAD SLPRGSARLT SONLYSNVFK PADVVSPKIP SGFPIEDHET SPLNDSDAFL STHLKLFFSA SSNSFYESEL PQGFQDYNNL GQFTDDDDVP TPLVAITIR LVVGFLPLSV IMIACYSFIV FRMQRGRFAK SQSKTRFVAV VVAVFLVCW TPYHIFGVLS LLTDPETPLG KTLMSWDHVC IALASANSCE NPFLYALLGK DFRKKARQSI QGILEAARFSE ELTRSTHCPN NNVISERNST TV	Homo sapiens
79	758	Complement Component 5a Receptor 1	NM_001736	agggggagcc caggagacca gaacatgaac tccttcaatt ataccacccc tgattatggg A cactatgatg acaagatac cctggacctc aacacccctg tggataaac ttctaacacg ctgcgtgttc cagacatcct ggccttggtc atctttgcag tcgtcttctt ggtgggagtg ctgggcaatg cctggtggtg ctgggtgacg gcattcgagg ccaagcgac catcaatgcc atctggttcc tcaacttggc ggtagccgac ttctctctct gcttggcgt gccatcttg ttcacgtcca ttgtacagca tcaccactgg ccttttggcg gggccgctg cagcatcctg cctccctca tctgtctcaa catgtacgcc agcatctgctg tctggccac catcagcgcc gaccgcttcc tgcgtgtgtt taaacccatc tgggtgccaga acttccgagg ggcgggcttg gcctggtatg cctgtgctg gcttggggt ttagccctgc tgcgacct accctccttc ctgtaccggg tgggtccggga gtagtacttt ccacaaaagg tgtgtgttgg cgtggactac agccacgaca aacggcgggga gcgagccgtg gccatcgctc gctggttctt ggccttctg tgccctctac tcacgctcac gatttgttac actttcatc tgctccggac gtggagccgc agggccacgc ggtccaccaa gacactcaag gtggtggttg cagtgtgtgc cagtttcttt atcttctggt tgcctacca ggtgacgggg ataatgatgt ccttcttga gccatcgta ccacacttcc tgcgtctgaa taagctggac tccctgtgtg tctcctttgc ctacatcaac tgctgcatca accccatcat ctacgtgtgtg gccggccagg gcttccaggg ccgactgcgg aatccctcc ccagctctct ccggaacgtg ttgactgaag agtccgtggt tagggagagc aagtcaattca cgcgtccac agtggacact atggcccaga agacccaggc agtgtaggcg acagccctcat gggccactgt ggcggatgt ccccttctt cccggccatt cctcctcttg tttcacttc acttttctg gtagtgtgtt ccctcttctt cccttagcta actaactctc ctccatgttg cctgtcttc ccagacttgt cctccttctt ccagcgggac tcttctctc ctctctctt tgcaaggtga acacttctt ctaggggagca cctccccc cccacacacac catcttctca tcccaggctt ttgaaaaaca aacagaaacc cgtgtatctg gatatattcc atatggcaat aggtgtgaac agggaaactca gaatacagac aagtagaag attctcgctt aaaaaatgt attatttta tggcaagtgt gaaaatatgt aactggaatc tcaaaagtcc tttgggacaa acagaagtc catggagtta tctaagctct tgaagtgtg ttaattttaa aaagaaatt aggtgtgag cagtggtctca cgcctgtaat ccagaaactt tgggaggcta aggtgggttg atcacctgag gtcaagagt ccagaccagg ctggccagca tgggtgaaacc	Homo sapiens

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p>ccgtctgtac taaaaataca aaaaattaac tgggcatggt agtgggtggt tgtaatccca gctacttggg aggtgaggt gggagaattg ctggaacctt ggaggtggag gttgtgtga gcatgatcg caccactgca ctctagcctg ggtgacggag ggaggtctctg tctcaaaagc aaagcaaaaa caaaacaaa aacacataaa aaacctgcag tttgtttgtt actttgtttt taaattatgc tttctatttt gagatcattg caaaccaac acaattgtaa gtaatgtatc agagggatct tgtgtaccct tcaccagcc tcaccaatg gcaacatctt gcaaaactac aatgtagtct cataaccagg atattgacat tgatacagt aagatacagg acattctcat caccacagg atcccagga tgcccacttc ctccacccc cacaccag cctgtgccct aacccctggc aaccaggaat ccactctcca tttctataat gttgtcatctt caagaatggt attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaaa gtatacatga ctttaatgag gaaaaataaa atgaatattg aaaaaaaaaa ctttagag</p> <p>LVIFAVVFLV GVLGNALVVM P ILPSLILNM SFLYRVVREE SRRATRSTKT INCCINPIIY</p>	Homo sapiens
81	767	Calcitonin Receptor- like Receptor	NM_005795	<p>gcacgaggga acaacctctc tctctscagc agagagtgtc acctcctgct ttaggacctat caagctctgc taactgaatc tcatectaat tgcaggatca cattgcaag ctttcacct ttcccacctt gcttgggtt aaatctcttc tgcggatctc cagaaagtaa agttccatcc tgagaatatt tcacaagaa tttctctaag agctggactg ggtcttgacc cctggaattt aagaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtctgga gacaattgtg catatcgtct aataataaaa acctacta gcctatagaa acaatattt gaataataaa aaccatact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaact actacaactt gacaagactg ctgcaaaactt caattgggtc ccaaaacttg acaaggttgc tataaacaa gattgtaca acttctagt tatgttatc agcatatttc atttgggctt aatgatggag aaaaagtgtc cctgtattt tctggttctc ttgcttttt ttatgattct tgttacagca gaattagaag agagtctga ggaactcaatt cagttgggag ttactagaaa taaaatcatg acagctcaat atgaatgtta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactgca acagaacctg ggaatggatgg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agctctgccc tgattacttt caggactttg atccatcaga aaaagttaca aagatctgtg accaagatgg aaactgggtt agacatccag caagcaacag aacatggaca aattataccc agtgaatgt taacacccc gagaaagta agatgcact aaatttgttt tacctgacca cggattgtct attgcatcac tgcttatctc gcttggcata tctttttatt tcaagagcct agttggccaa aggattacct tacacaaaaa tctgttcttc tcatttgtt gtaacctgt tgaacaatc attcacctca ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgttagttgc aaagtgtccc agttcaattca tctttacctg atgggctgta attacttttg gatgctctgt gaaggcattt acctacacac actcattgtg gtggccgtgt ttgcagagaa gcaacattta atgtgttatt attttcttgg ctgggggattt ccactgattc ctgcttgat acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataccca tctcctctac attatccatg</p>	Homo sapiens

82	767	Calcitonin Receptor- like Receptor	NP_005786.1	MEKKCTLYFL VLLPFFMILV EGVYCNRTWD GWLCWNDVAA WTNYTCQNVN THEKVKTNALN FFSFVCNSVV TIIHLTAVAN IVAVAFKQ HLMWYFLGW ALLVNLFFLL NIVRVLTIKL AEVYDYIMH ILMHFQGLLV YTVSTSDGP GYSHDCPSEH ggggactacg gagagctctg tcccgaggac caggggatgc gagctcagcc taatcaaga caccttcgc accatcaca agacatcaaa ggtgacatgg ttcctttagg ggaagtccct	gagagctctg tctgtacatg gagctcagc ctgacacttc agaggttcaa gcaattctga tccaggttat ctcttaaaac cactgtttgg tgcttctctt aatgactttg gagctgttaac taaatactcc ggagaaaagc gaattcaaac caccattgat gaattcaaac tacccttatt cscctcaaga aaactcttta gagtgccgta gtcctttttg cctgtctggc tttcttttct gagtgccgta catcagttat gataataat gcaatcttcc aacctcttcc cctgtctggc ataaaatttg ccttccatt aggatttctt tataaaaga aaatcaatga gagtgtaaat actccattat caacttatgt aatttttaa gcaaatatat tgggctgatt ttttaataaa	gagagctctg tctgtacatg gagctcagc ctgacacttc agaggttcaa gcaattctga tccaggttat ctcttaaaac cactgtttgg tgcttctctt aatgactttg gagctgttaac taaatactcc ggagaaaagc gaattcaaac caccattgat gaattcaaac tacccttatt cscctcaaga aaactcttta gagtgccgta gtcctttttg cctgtctggc tttcttttct gagtgccgta catcagttat gataataat gcaatcttcc aacctcttcc cctgtctggc ataaaatttg ccttccatt aggatttctt tataaaaga aaatcaatga gagtgtaaat actccattat caacttatgt aatttttaa gcaaatatat tgggctgatt ttttaataaa	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	gagagctctg tcccgaggac gagctcagcc caccttcgc agacatcaaa ttcctttagg	gagagctctg tcccgaggac gagctcagcc caccttcgc agacatcaaa ttcctttagg	gagagctctg tcccgaggac gagctcagcc caccttcgc agacatcaaa ttcctttagg	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p>cccagcagac caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtgggagaa cttcatggag atagagtgtt tcatggctct gaacccagc cagcagctgg ccattgcagt cctgtccctc acgtgggga ccttcaagggt cctggagaa ctcctgtgtg tgtgcgtcat cctccactcc cgcagcctcc gctgcaggcc ttcctaccac ttcctcggca gcctggcggg ggcagacctc ctggggagtg tcatttttgt ttacagcttc attgacttcc agtgttcca ccgcgaagat agccgcaacg tgtttctgtt caaatgggt ggggtcacgg cctccttccac tgcctccgtg ggcagcctgt tctcacaagg catcgacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgtttt gcctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctcctgggc tggaaactgc agaaactgca atctgtttgc tcagacattt tccacacat tgatgaaacc tacctgatgt tctggatcgg ggtcacaggc gtactgcttc tgttcatcgt gtatgcgtac atgtatattc tctggaaggc tcacagccac gccgtccgca tgattcagcg tggcaccag aagagcatca tcatccacac gtctgaggat gggaaggtag aggtgaccgg gcagagacaa gcccgcatgg acattaggtt agccaagacc ctggtctcga tcttggtggt gtgatcatc tgcctgggccc cctcgtcttc aatcatggtg tatgatgtct ttgggaagat gaacaagctc attaagacgg tgtttgcatt ctgcagtagt ctctgcctgc tgaactccac cgtgaacccc atcatctatg cctgaggagg taaggacctg cgacacgctt tccggagcat gtttccctct tgtgaaggca ctgcgcaggc tctggataac agcatggggg actcggactg cctgcacaaa cagcaaaaca atgcagccag tgttcacagg gccgcagaaa cctgcataca gagcacggtc aagatygcca aggtaaccaat gtctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgatgcctcc ctggcagcac aggaaaaagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tctctgttta ttttttttta actttaccat gtcaaatgaa aaggtgattg ccacatgtca cttattgtct tagtttccgt ttgggctaact cttccggggg tcgtaggaaa ccttt</p>	Homo sapiens
832	Cannabinoid Receptor 1	NP_001831.1	<p>LYVGSNDIQY EDIKGDMASK LGYFPQKEFL TSFRGSPFQE P KMTAGDNPQL VPADQVNITE FYNKSLSEFK ENEENIQCGE NFMDECFMV LNPSQQLAIA VLSLTGTFV VLENLLVLCV ILHSRSLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVFL FKLGGVTASF TASVGSLELT AIDRYISLHR PLAYKRIVTR PKAVAFCLM WTIAIVIAVL PLLGNCEKL QSVCSDFPH IDETYLMEFI GVTSVLLFI VYAYMYILWK AHSHAVRMIO RGTQKSIH TSEDGKVQVT RPDQARMDIR LAKTLVLIIV VLIICWGPLL AIMVYDVFGR MNKLIKTVFA FCSMLCLNS TVNPIIALR SKDLRHAFRS MFPSCEGTAQ PLDMSMGDS CLHKHANNA SVHRAAFSCI KSTVKIAKVT MSVSTDTSAE AL</p>	Homo sapiens
833	Cannabinoid Receptor 2	NM_001841	<p>caggctcctgg gagagacag aaacaactg gactcctcag cccccggcag ctcccagtcg A ccagccacc acaacaac ccaagcctt ctagacaagc tcagtggaat ctgaaggcc caccatgg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaaacctc tgaaggatta catgatcctg atgggtcccc agaagacagc tgttgcgtg ttgtcactc ttctggcctt gctaaagtgc ctggagaacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatacctgt tcattggcag cttggctggg gctgacttcc tggccagtgt ggtctttgca tgcagctttg tgaatttcca tgttttccat ggtgtggatt ccaaggctgt cttcctgctg aagattggca gcgtgactat gaccttca gcctctgtgg gtacccctc gctgaccgcc attgaccgat acctctgct gcgtatcca</p>	Homo sapiens

86	Cannabinoid Receptor 2	NP_001832.1	MEECWVTEIA NGSKDGLDSN PMKDYMIISG PQKTAVALVC TLLGLLSALE NVAVLYLILS P	Homo sapiens
87	Leukocyte Antigen CD97	NM_001784	SHQLRRKPSY LFIGSLAGAD FLASVVFACS FVNFHFHGV DSKAVFLKXI GSVTMTFTAS VGSLLLTALD RYLCLRPYS YKALLTRGRA LVTLGIMWVL SALVSYLPLM GWTCPPRCS ELFPLIPNDY LLSWLLFIAF LFSGIIITYG HVLWKAHQHV ASLSGHQDRQ VPGMARMLRD VRLAKTIGLV LAVLLICWFP VLALMAHSILA TTLSDQVKKA FAFCSMLCLI NSMNPVIYA LRSGEIRSSA HHCLAHWKC VRGLGSEAKE EAPRSSVTET EADGKITPWP DSRDLDSDC agctccaaacc atgggagacc gcgtctttct cgtactctt cctcactctt cctcgcgcgc tctgcccgc A agctgtgga gacgggacag cctgtccca cctgtcttct cgtactctt gctcgtctga cctgcccgg agctgaaacc caggactcca ggggctgtgc cgggtgtgtc cctcagaact cctcgtgtgt caatgccacc gcctgtcgtc gcaatccagg gttcagctct tttctgaga tcatcaccac cccgcaggag acttgtgacg acatcaacga gttgcaaca cgcgcgaaa tgctatgcgg aaaattctcg gactgctgga acacagaggg gactacgac tgcgtgtgca gcccgggata tgagcctgtt tctggggcaa aaacattcaa gaatgagagc gagaacacct gtcaagatgt ggacgagtgc agtccgggc agcatcagtg tgacagctcc accgtctgct tcaacaccgt gggttcatac agtgcgcgt gccgcccagg ctggaagccc agacacgaa tcccgaata ccaaaaggac actgtctgtg aagatatgac ttctccacc tggacccgc cccctggagt ccacagccag acgttttccc gattcttga caaagtccag gacctggga gagactccaa gacaaactca gccgaggtca ccatccagaa tgtcatcaaa ttggtggatg aactgatgga agctcctgga gacgtagagg ccctggcgcc accgtgcgg cacctcatag ccaccagct gctctcaaac ctggaagata tcatgaggat cctggccaag agcctgccta aagggccctt	Homo sapiens

88	922	Leukocyte Antigen CD97	NP_001775.1	<p> caccacatt tcccttcga acacagagct gaccctgatg atccaggagc ggggggacaa gaagtcact atgggtcaga gtaggcacg catgaagctg aatgggctg tggcagctgg agcagagat ccaggccccc ccgtggcggg catcctctcc atccagaaca tgacacatt gctggccaat gcctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaagcagc atccgtggtg tccaactcag acgctctctt gccgtcaact ccactcttct gagccacaac aacaccaag aactcaactc cccactctct tccgcttct cccaccttga gtcctccgat ggggagggcg gaagagacc tctggaagag gacgtgatgc ctgggcccag gcaggagctg ctctgtgctt tctggaagag tgacagagac aggggagggc actgggcccac cgaggtctgc caggtgctgg gcagcaagaa cggcagcacc acctgccaat gcagccacct gagcagcttt acgatacctta tggctcatta tgacgtggag gactggaaag tgacctgat caccagggtg ggactggcgc tgtcactctt ctgcctgctg ctgtgcatcc tcactttctt gctggtgctg cccatccagg gctcgcgcac caccatacac ctgcacctct gcactgctct cttctgggc tcacacatct tctggcgcg catcgagaac gaaggcgcc aggtggggct gcgtggccgc ctggtggccg ggtgctgca ctactgttct ctggcgcct tctgtggat gagcctcgaa ggcctggagc tctactttct tgtggtggc gtgttccaag gccagggctt gagtagcgc tggctctgcc tgatcgcta tggcgtgcc ctgctcatg tggcgtctc ggctgccatc tacagcaagg gctacggccg cccagatac tgcgtgttg actttgagca ggcttctctc tggagcttct tgggacctgt gacctcatc attttgtca atgctgtcat ttctgtgact accgtctgga agctcactca gaagttttct gaaatcaatc cagacatgaa gaaattaaag aaggcagggg cgtgacctc cagggccatc gcgcagctct tctgtttggg ctgcacctgg gctttggccc tgttcatctt cgacgacgg agcttggtgc tgacctatgt gtttaccatc ctcaactgcc tgcaggggc ctctctctac ctgctgctac gcctgctcaa caagaaggtt cgggaagaat accggaagt ggcctgccta gttgctggg ggagcaagta ctcagaatc acctccacca cgtctggcac tggccacaat cagacccggg cctcagggc atcagagtcc ggcataatga ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagctttg tacacgaaga ccatccatcc tccctctctc caccactcta ctccctccac cctccctccc tgatccctg tgcacacagg agggagtggc agctatagtc tggcaccaaa gtccagaca ccagtgggg tggagtgcga gccactgttc ctgctgctgg ctgctctctt gctccacctt gtgacccagg gtggggacag ggcctggccc aggctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcggga cagactaagg gcgcttgctc catcctggac tttctctctc atgtctttgc tgcagaactg aagagactag gcgctggggc tcagcttccc tcttaagcta agactgatgt cagaggcccc atggcagggc ccttggggc cactgacctga ggctcaggt acagaggcct gccctgctg cccgggcagg aggttctcac tgtgtggaag gtgtagacg ttgtgtaatg tgtttttatc tgttaaaatt tttagtgtt gacacttaa attaaacaca tgcatacaga aaaaaaaa a </p>	<p> FSEIITPTE P ENTCQDVDEC WTPPPGVHSQ TVCEDMTFT DVEALAPPVR MGQSSARMKL IRGVQLRRLS AVNSIFLSHN </p>	<p> Homo sapiens </p>
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89	941	EMR1 Hormone NM_001974 Receptor	NTKELNSPIL FAFSHLESSD GEAGRDRPAK DVMPGPRQEL LCAFWSKSDS RGGHWATEVC QVLGSKNGST TCQCSHLSSF TILMAHYDVE DWKLTLLTRV GLALSFLCLL LCILTFLLR PIQSRTHH LHLICILFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE GLELYFLVVR VFQOGLSTR WLCLIGYGP LLIVGVSAAI YSKGYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNVIFVT TWKLTQKFS EINPDMKKLK KARALTITAI AOLFLLGCTW VGLFIEDDR SLVLTIVFTI LNCLOGAFLY LLHCLLNKKV REEYRKWACL VAGGSKYSEF TSTTSGTGHN QTRALRASES GI	Homo sapiens
			ctaaagtgtt ttctcttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A tctctgggg atgtgtgtt atgcacagct gggaaggcca cataagacc acacggaaaac caaacacaaa gggtaataac tgtagagaca gtacctgtg cccagcttat gccacctgca ccaatacggg ggacagttac tattgcatt gcaaacaaagg ctctctgtcc agcaatgggc aaaatcactt caaggatcca ggagtgcgat gcaaatat tgatgaatgt tctcaaaagcc cccagccctg tggctctaac tcactctgca aaaacctgtc agggaggtac aagtgcagct gtttagatgg ttctcttct cccactggaa atgactgggt cccagggaaag ccgggcaatt tctcctgtac tgatatcaat gagtgcctca ccagcagggt ctgccctgag catctgact gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcatc tctagaaact ccacctgtga agacgtgaat gaatgtgcag atccaagagc ttgccagag catgcaactt gtaataacac tgttggaac tactctgtt tctgcaacc aggatttgaa tccagcagtg gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa tgtgcccac caattcaaca tgcaccaaca ctctctggag ctacttttg acctgccacc ctggccttgc accaagcagt ggacagttga atttccagaga ccaaggagtg gaatgtagag atattgatga gtgccgccaa gatccatcaa cctgtgtgct taattctatc tgcaccaatg ccctgggtc ctacagctgt gctgctattg taggctttca tcccaatcca gaaggctccc agaaagatgg caacttcagc tgccaaaagg ttctcttcaa atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccaa aggaaaccgc agtgaacct gcataigtct ccttttgtc acaataaat aacatcttca gcgttctgga caaagtgtgt gaaaaataaa cgaccgtagt ttctctgaag aatacaactg agagctttgt cctgtgtctt aaacaaatat ccatgtggac taaattcacc aggaagaga cgtcctcctt ggccacagtc ttctggaga gtgtggaag catgacactg gcattctttt gaaacccctc agcaaatgtc actccggctg ttcggggcga atacttagc attgagagca agttatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttggtg gccaagggg ataatgaa gatcgggtgt tccacaattg aggaaatctga atccacagag accactgtg tggcttttgt ctcttttgtt ggcattggaat cggtttttaa tgagcgcttc ttccaagacc accaggctcc ctgaccacc tctgagatca agctgaagat gaattctcga gtctgtggg gcataatgac agtgaagaa aagacggct tctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagagg ccatctgtgt ttcttgagc actgatgta aggttggaag atggacatcc tttagctgtg tgatcctgga agcttctgag acataacca tctgcagctg taatcagatg gcaaatcttg ccgttatcat ggctctggg gactcaca ggaactttt ctgtacatc attagccatg taggcattat catctcctg gtgtgcctc tcttgccat cgccacctt ctgctgtgtc gtccatccg aaatcacaa accctacctc acctgacat ctgctgtgtg ctctcttgg cgaagactct ctctctgcc ggtatacaca agactgaca caagcgggc tgcgccatca	A

90	EMR1 Hormone NP_001965.1 Receptor	<p> tgcgggctt cctgcactac cttttccttg cctgtctctt ctggatgctg gtggaggctg tgatactgtt cttgatgtgc agaaacctga aggtgtgtga ttacttcagc tctcgcaaca tcaagatgct gcacatctgt gcctttgttt atgggtctgc gatgtgtgtg gtggtgatct ctgccagtgt gcagccacag ggctatggaa tgcataatcg ctgctggctg aatacagaga cagggttcac ctggagtctt ttggggccag ttgacacagt tatagtgtac aactcccttc tctgacctg gaccttcttg atcctgaggc agaggtcttc cagtgttaac gccgaagtct caacgctaaa agacaccagg ttactgacct tcaaggctt tgcccagctc ttcatcctgg gctgctctg ggtgctgggc atttttcaga ttggacctg ggcaggtgtc atggcttacc tgttcacct catcaacagc ctgcaggggg ccttcattt cctcatccac tgtctgtcca acggccagg acgagaagaa tacaagagt ggatcactgg gaagacgaag cccagctccc agtcccgag ctcaaggatc ttgctgtcct ccatgccatc cgttccaa acgggttaaa gcctttctg ctttcaata tgctatggag ccacagtga ggacagtagt ttcctgcagg agcctacct gaaatctct ctcagcttaa catggaaatg aggtccac cagccccaga acctctggg gaagaatgtt gggggccgtc ttctgtgtt tgtatgact gatgagaaat cagacgtttc tgcctcaaac gaccatttta tctctgtgt ctgcaacttc ttcaattcca gagttctga gaacagacc aaattcaatg gcatgaccaa gaacacctg ctaccatttt gttttctct gccctgtgtg gtgcatgtt ctaagcgtgc cctccagcg cctatcatac gcctgacaca gagaacctct caataaatga tttgtgcct gtctgactga tttaccctaa aaaaaaaaa aaaaaaaaaa aaaaaaa GFLSSNGQNH FKDPGVSRXD IDECSQSPQ CGPNSSCKNL SGRYKCSCLD GFSSPTGNDW VPGKPGNFSC TDINECTSR VCPEHSDCVN SMGSYSCSQ VGFISRNSTC EDWNECADPR ACPEHATCNN TVGNYSFCFN PGFESSGHL SCQGLKASCE DIDECEMCP INSTCNTPG SYFCTCHPGF APSSGQLNFT DQGVCECRDID ECRQDPSTCG PNSICTNALG SYSCGCIYGF HPNPEGSKD GNESCQRVLF CKKEDVIPDN KQIQCCQEGT AVKPAYVSFC AQINNIFSVL DKVCENKTV VSLKNTTESF VPVLKQISMW TKFTKEETSS LATVFLESVE SMTLASFWKP SANVTPAVRA EYLDIESKVI NKECSEENV TLDLVAKGDKM KIGCSTIEES ESTETTGVAE VSFVGMESVL NERFFQDHQA PLTTSEIKLK MNSRVVGGIM TGEKKDGFSD PIYTLENVQ PKQKFERPIC VSWSTDVKGG RWTSGCVIL EASETYTICS CNQMANLAVI MASGELTMDF SLYIISHVGI IISLVCLVLA IATFLLCRSI RNHNTYLHLH LCVCLLLAKT LFLAGIHKTD NKTGCAIAG FLHYLFLACF FWMLEAVIL FLMVRLNKV NYFSSRNIMK LHICAFGYGL PMLVVVISAS VQPQGYGMHN RCWLNTETGF IWSFLGPVCT VIVINSLLT WTLWILRQL SSVNAEVSTL KDRLLTFRK FAQLFILGCS WVLGFIQIGP VAGWMAYLFT IINSLQGAFI FLIHCLLNGQ VREYKRWIT GKTKPSSSQS TSRILLSSMP SASKTG ggaacacgac acctagaagt aggagtgaaga ttgcctgaag ,ttccctcttg aggaagacc A acccctccgc ctgtagagcc ggggtgtggc gtgcctgagg accccttcgg cctggacagc ccacgcgggc ttggggggcc tgcctctgcc ctcatggggc ggcctatcgt tccggaagcg gcgagtgaat attcaaatgg ccagttaggg gcgcactcgg aagtggcgc cccgcatgag gcagttcagc ggcctccaga gtccggggag ggaggtttat tctccgctg cagagactg tgaatccgc aacctagc agagagggc gccctgtgtg ggaagagggc accaacatct ggacggcagg taccagaga gtgagcagct ccacgggga ctgtgcagc tggccgacac </p>	Homo sapiens
91	G Protein-Coupled Receptor GPR30	<p> 965 NM_001505 </p>	Homo sapiens

ccgcaggagac gccgcgcgga cgcgcacgcg gagggccctc gcctccacgg atgcaccatg
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 gaatttgtt ctacagaaat aacagctggg gacaaactgg gtgatgatgt aaaaacctc
 ccataaaatg taagaaaagc tgatgaggt ggtgacgttc agcctttgtc aataaacctg
 tcatgtgcgg atcctt

92 965 G Protein- NP_001496.1 MDVTSQARGV GLEMPGTAQ PAAPNTTSP E LNLSHPLLGT ALANGTGELS EHQQYVIGLF P Homo

93	978	Cholecystostoki nin A Receptor	NM_000730	LSCLYTIFLF PIGFVGNILI LVVNISPREK MTIPDLYFIN LAVADLILVA DSLIEVFNLIH sapiens
				ERYDIAVLC TEMSLEQVN MYSSVFELTW MSFDRYIALA RAMRCSLEFRT KKHARLSGGL sapiens
94	978	Cholecystostoki nin A Receptor	NP_000721.1	IWMASVSATL VPFTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPFALI GLCYSLIVRV sapiens
				LVRAHRRHGL RPRRQKALRM ILAVLVFEV CWLPENVEIS VHLLOQTQPG AAPCKQSEFRH sapiens
95	978	Cholecystostoki nin A Receptor	NP_000721.1	AHPLTGHIVN LAAFNSCLN PLIYSFELGET FRDKLRLYIE QKTNLPALNR FCHAALKAVI sapiens
				PDSTEQSDVR FSSAV sapiens
96	978	Cholecystostoki nin A Receptor	NP_000721.1	ggaatgggctg aaaaaagccca cacctggaaa tcaactccctc cctgctcctc cagcgagcagt A Homo
				tgcatctgag agacgcttcg gtcattagag gaatgagcgg ggagtgagca attcaccagc sapiens
97	978	Cholecystostoki nin A Receptor	NP_000721.1	tctccagcac ttggtgaaa gcagcaggca aggatgatg tggttgacag ccttctgtg sapiens
				aatggaagca acataactcc tccctgtgaa ctgaggctcg aaaaatgagac gcttttctgc sapiens
98	978	Cholecystostoki nin A Receptor	NP_000721.1	ttggatcagc cccgtccttc caaagatgg cagccagcgg tgcagattct cttgtactcc sapiens
				ttgatattcc tgctcagcgt gctgggaaac acgctggta tcaaccgtgct gattcgggaa sapiens
99	978	Cholecystostoki nin A Receptor	NP_000721.1	aagcggatgc ggacggtaac caacatcttc ctccctccc tggctgtcag cgacctcat sapiens
				ctctgtctct tctgcatgcc gttcaacctc atccccaaac tgcctcaagg tttcatcttc sapiens
100	978	Cholecystostoki nin A Receptor	NP_000721.1	gggagcgccg tttgcaagac caccacctac ttcattgggca cctctgtgag tgtatctacc sapiens
				tttaattctg tagccatctc tctagagaga tatggtgaga tttgcaaac cttacagctc sapiens
101	978	Cholecystostoki nin A Receptor	NP_000721.1	cgggtctggc agacaaaac ccatgctttg aaggtgattg ctgctacctg gtgctcttcc sapiens
				tttaccatca tgactccgta cccattttat agcaacttgg tgccttttac caaaaaaac sapiens
102	978	Cholecystostoki nin A Receptor	NP_000721.1	aaccagaccg cgaatatgtg ccgctttcta ctgccaaatg atgttatga cgagtcctgg sapiens
				cacacattcc tgtaactcat cctctttctt attccttgaa ttgtgatgat ggtggcatac sapiens
103	978	Cholecystostoki nin A Receptor	NP_000721.1	gattaatct ctttggaaat ctaccaggga ataaaatttg aggtagacca gaagaagtct sapiens
				gctaaagaaa ggaacacctag caccaccagc agcggcaaat atgaggacag cgatgggtgt sapiens
104	978	Cholecystostoki nin A Receptor	NP_000721.1	tacctgaaa agaccaggcc cccgaggag ctggagctcc ggcagctgc caccggcagc sapiens
				agcagcaggc ccaaccgcat ccgagtaaac agctccgag ccaacctgat ggccaagaaa sapiens
105	978	Cholecystostoki nin A Receptor	NP_000721.1	agggtgatcc gcatgctcat cgtcatcgtg gtctcttct tctgtgctg gatgcccac sapiens
				ttcagcgcca acgcttgccg ggcctacgac accgctcctc cagagcgccg cctctcagga sapiens
106	978	Cholecystostoki nin A Receptor	NP_000721.1	accccatctt ccttcactct cctcctgtcc tacacctct cctgcgtcaa ccccatcat sapiens
				tactgcttca tgaacaaaacg cttccgctc ggcttcattg ccaccttccc ctgctgcccc sapiens
107	978	Cholecystostoki nin A Receptor	NP_000721.1	aatcctggtc cccaggggc gagggagag gtgggggag aggaggaag cgggaccaca sapiens
				ggagcctctc tgtccaggtt ctcgtacag catatgagt cctcgggtgc accccagtga sapiens
108	978	Cholecystostoki nin A Receptor	NP_000721.1	gatgtccctt gaccctcac cgcagaaga aggcaggag gagcagaga agaaagaacg sapiens
				gaagaagaga tcaggaagag aaggagcaga gcagagctga tggagaaga aggtcccat sapiens
109	978	Cholecystostoki nin A Receptor	NP_000721.1	tccagtgga actcttcaag gtctctttc atccttcac tgattccaga gcactgctcc sapiens
				agtggggcca tgattgggtt ctaggcagtt caaagcagga tatgttaagt aacactcaac sapiens
110	978	Cholecystostoki nin A Receptor	NP_000721.1	catcag sapiens
				MDVVDLSLVN GSNITPPCEL GLENETFLCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P sapiens
111	978	Cholecystostoki nin A Receptor	NP_000721.1	LVITVLRNK RMRTVTNIFL LSLAVSDML CLFCMPFNLI PNLLKDFIFG SAVCKTTTYF sapiens
				MGTSVSVSTF NLVAISLERY GAICKPLQSR VWQTKSHALK VIAATWCLSF TIMTPYPIYS sapiens
112	978	Cholecystostoki nin A Receptor	NP_000721.1	NLVPFTKNNN QTANMCRFL PNDVMQSWH TFLLLILFLI PGIVMMVAY LISLELYQGI sapiens
				KFEASQKSA KERKPTTSS GKYEDSDGKY LQKTRPRKL ELRQLSTGSS SRANRIRNS sapiens
113	978	Cholecystostoki nin A Receptor	NP_000721.1	SAANLMAKRR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASAEERLSGT PISFILLISY sapiens

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	<p>TSSCVNPIIY CFMNRFRLLG FMATFPCCPN PGPPGARGEV GEEEGGTTG ASLSRFSYSH MSASVPEPQ</p> <p>atggaagcgg cactgctcca cagctgtctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggacggctg ggggccaacc ctggaccacc aggttcctta ctctactgc aacacgacct tggaccagat cggaaactgc tggcccgcga gcctgcccgg agccctcgtg gagagccctt gcccagatg cttcaacggc gtcaagatca acagaccgg gaatgcctat cgagaatgct tggagaatgg gactggggc tcaaaagtca actactaca tgtgagcccc attttgatg acaagcagag gaagtatgac tgcactacc ccatgcctt tgcgtcaac tacctggcc actgcgtatc tgtggcagcc ctggtggccg ccttcctgct ttctctggcc ctgcggagca ttctgtgtct gcggaatgtg attcaactga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgtctcag ctggttgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctggtgac caacttcttc tggatgtttg tggaaaggctg ctacctgcac acggccatgt tcatgacctc ctccactgag cgctgcgca agtgcctctt cctcttcatc gtaggtgtga tccccctccc catcatcgtc gcctgggcca tcggcaagct ctactatgag aatgaacagt tctggttttg caaggagcct ggcagacctg tggactacat ctaccaaggc cccatcatc tctgtctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgctc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccacctgg tgcctctgcc cctcctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actcctctt gcagtcgtt cagggtttct tctgtctctg cttctactgc ttcttcaatg gagagtgctg ctacgcctg aggaagagt ggcacgcgt gcaggacct cactcccttc gattccccat ggcggggcc atgtccatcc ctacatcac cacacgcatc agcttcaca gcatcaagca gacggccgt gtgtgacccc tgggtgccc acctgcacag ctccctgtc ctctccacc ttctctctt ggttctctg tctggggcag gctctctgtg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgcggc agccaaaggg gactgcaagg gacagggat agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcattg cccatccca cctctctggc caggcccta ctggggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacacac agggctcccc tgcctactc atggagccag cagccaggca atggtgtggc cctgcactg ccttggaact ccacactcag tgggtgcccgt cagttgggtg ggttaacgcc aagcaaaagga tcagtgtggc tgccttatcc cagggtgtc acctagagag gctcactgt accccacct gttcctgtgt cccctcccca gccatcctcc ccgccttggg ggtcccatga aggatgcagg ctctccaggc tggcttctc tcttgggaga ccctctctct gcttagtcca cagattagc aatcaaggaa gacgccatca gggaaagccac atccttagtc aaccagtgc atcgtcggg gcaaaatgag gacgagaggc atggagaggg gagggcgtgg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctcttgg</p>	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	<p>MDAALLHSLL EANCSLALAE ELLLDGWGPP LDPEGPYSY NTLDQIGTC WPSAAGALV P ERPCPEYENG VKYNTTRNAY RECLENGTWA SKINYSQCEP ILDDKQRYD LHYRIALVNV YLGHCVSVAALVAAFLFLA LRSIRCLRNV IHNLIITTFI LRNVWFLLQ LVDHEVHESN</p>	Homo sapiens

EVWCHCIITTI	FNYFVVTNFF	WMFVEGCVLH	TAIVMTYSTE	RLRKCLFLFI	GWCIPFPPIIV
AWAIGKLYYE	NEQCWFKEP	GDLDVDIYQG	PIILVLLINF	VFLFNIVRIL	MTKLRAS'TTS
ETIQYRKRAVK	ATLVLLPLLG	ITYMLFFVNP	GEDDLSQIME	IYFNSFLQSF	QGFFVSVFYC
FFNGEVRSAV	RKRHRWQDH	HSLRVPMDRA	MSIPTSPTRI	SFHSIKQTAA	V
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gcgcgggggc	ctgctctgtg	gggctgaag	ccgcccggg	ctcgccaag	ctctgggctc
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aggagccagg	ggcttgagg	agcgagaaga	catgtattht	cagctgagtc	tcagaaagggg
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atgtctctgg	ggthtgcctat	taagaaacta	aggtacggtg	agactctgag	gtgtcaggag
agccctctgc	tgctttccaa	cacacaatta	actccgthtc	caatacat	ccagtgtatt

98	1240	Dopamine Receptor D1	NP_000785.1	<p> tctgtgttg ttcatagtca atcaaacagg gacactaca acatggggag ccataaggga catgtctttg gcttcagaat tgtttttaga aattattct tatcttagga ttaccacaa agggcaaga atcaacagt aacagcttca cttaaaatca aattttctg ggaagaaat gagatgggtt gatttgctg tacaacaata ggtgctaaca ctgttccag caaagtcttc agattgtaa gtagtgta tgcctcata aattattct aaacattaa ttgaggtcta cagtaggagt gaaaaattt ttccagaat tgagatagt ttgttgata ttggttctat ttatttattg tataatgga ttttttaat ttatgatata ataaatatat attatcata tttatagga taaattaatg agttttatcc aagaccttac aaccacattt ctggccattt aactagcact ttataagca atgaagcaaa cacacagact ctgtgagatt ctaaatgttc atgtgtaact tctaga MRTLNTSAMD GTGLVVERDF SVRLTACFL SLILSTLIG NTLVCAAVIR FRHLRSKVTN P FFVISLAVSD LLVAVLMPW KAVAEIAGFW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD RYWAISSPFR YERWTPKAA FILISVAWTL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA ETIDNCDSSL SRTYAISVV ISFYIPVAIM IVTYTRIYRI AQQIRRIAA LERAAVHAKN CQTTGNGKP VECSQPESSE KMSFKRETKV LKTLVIMGV FVCCWLPFFI LNCILPFCGS GETQPCIDS NTFDFVMFG WANSSLNPII YAFNADFRKA FSTLLGCYRL CPATNNAIET VSINNNGAM FSSHHERGS ISKECNLVYL IPHAVGSSED LKKEEAAGIA RPLEKLSPAL SVILDYDIDV SLEKIQITQ NGQHPT </p>	Homo sapiens
99	1241	Dopamine Receptor D5	NM_000798	<p> ggacagaggc agggctgaag ttgggacgc gacagaccg cccctgcagt ccagcccgaa A atgtgtccgc caggagcaaa cggcaccgcg taccggggc agttcgctct ataccagcag ctggcgacgg ggaacgcgt gggggcctcg gggggggcac ggcactggg gccctcacag gtggtcacgg cctgcctgct gaccctactc atcatctgga cctgctggg caactgtctg gtgtgcgcag ccactgtgcg gagccgccac ctgctgcgca acatgacca cgtcttcac gtgtctctgg ccgtgtcaga cttttctg gcgtgtctg tcatgacctg gaaggcagtc gccgaggtgg ccggttactg gccctttgga gcgttctgcg acgtctgggt gcccttcgac atcatgtgct cactgcctc catcctgaac ctgtgcgtca tcagcgtgga ccgctactgg gccatctcca ggccttccg ctacaagcgc agatgactc agcgcattggc cttggtcatg gtcggcctgg catggacctt gtccactctc atctcctca ttcgggtcca gctcaactgg cacagggacc agcgggcctc ttggggcggg ctggacctgc caaacaacct ggccaactgg acgcccggg aggaggactt ttgggagccc gacgtgaatg cagagaactg tgactccagc ctgaatcgaa cctacgccat ctcttctcgt ctcatcagct tctacatccc cgttgccatc atgategtga cctacacgcg catctaccg atcgcccagg tgcagatccc caggatttcc tccctggaga ggccgcgaga gcacgcgcag agctgccga gacgcgcagc ctgctgcccc gacaccagcc tgcgcgttc catcaagaag gagaccaagg ttctcaagac cctgtcgggtg atcatggggg tcttcgtgtg ttgctggctg ccttcttca tcttaactg catggtcccc ttctgcagt gacacctga agccctccg gccggcttcc cctgctcag tgagaccacc ttgcagctct tcgtctggtt cggctgggct aactcctcac tcaacccgt catctatgcc ttcaacgcg actttcagaa ggtgtttgcc cagctgctgg ggtgcagcca cttctgtcc cgcacgccgg tggagacggt gaacatcagc aatgagctca tctcctacaa ccaagacatc gtcttcaca aggaatcgc agctgcctac atccacatga tgcacaacgc cgttaccccc ggcaaccggg aggtggacaa cgacgaggag gagggtcctt tgcagtcgat gttccagatc </p>	Homo sapiens

100	1241	Dopamine Receptor D5	NP_000789.1	taaacacacag attatttgta aa aaaaaaaa MLPPGNGTA YPGQFALYQQ VCAAIVRSRH LRANMTNVFI IMCSTASILN LCVISVDRYW HRDQAASWGG LDLPNNLANW MIVTYTRIYR IAQVQIRRI IMGVFVCCWL PFFILNCMVP FNADFQKVEA QLLGCSHFCS GNREVDNDEE EGPFRMFIQI agagcctggc caccagtggt gatgatgatc tggagagga gacagacccc actacaata ttcggcaacg tgcgtggtg aactaacctga tcgtcagcct tgggttgctc acctggaggt ttcgtcactc tggacgtcat atcgacaggt acacagctgt cgccgggtca ccgtcatgat ctcctcttcg gactcaataa gtggtctact cctccatcgt atcaaagatct acattgtcct cgagctttca gggccacact atgaaactct gcaccgttat gtggaggctg cccggcgagc cccgagagga cccggtacag ccgtcccaac atggtctcca catgccaaa accaccccaa aaaacccgga cctccctcaa aaagccactc agatgctcgc ttcatcacac acatcctgaa	aa LAQNAVGGS AGAPPLGPSQ ALLVMPKRAV AEVAGYWPFG KMTQRMALVM VGLAWTSLIL DVNAENCDS LNRTYAISS SCRSSAACAP DTSLRASIKK AGFPCVSEIT FDFVWFQWA NELISYNQDI VFHKEIAAY AESVWELDCE GEISLDKITP ctccaccgac ctgatggatc gaactggagc cggcccttca ctatgccaca ctgctcacc catggctgtg tcccgcgaga cgagtggtgc gacctcctcg ggtaggtgag tggaaattca gatgtgcacg gcgagcattc ggccatgccc atgctgtaca ctccatcgtc tgggtcctgt cgcagaccag aacgagtga ctccttctac gtgcccttca ccgcagacgc cgcaagcgag gagggctcca ctaaaggga catgaagtct aatggaggtt cccagccacc cccagcccca cagcactccc gacagcccg gattgccaag atctttgaga gacctagc cgtagggaagc cattgttctc ggcgtgttca catacactgt gactgcaaca	Homo sapiens Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	gtcctgggtat A cgggaaggcg tgtcatcgtc gaccaccacc ggtcatgccc ctgtgacatc tgccatcagc cagctccaag ctcctgccc cccggccttc gtggtctac acgcagcagc ccccaggagc caccagccca tctccccgac gaagaatggg gccccatggc gaaggaga gctgcccctc cctgtacagc	gtcctgggtat A cgggaaggcg tgtcatcgtc gaccaccacc ggtcatgccc ctgtgacatc tgccatcagc cagctccaag ctcctgccc cccggccttc gtggtctac acgcagcact tgccacacta cagcgattca ctgtgacatc tggaaaattca gcgagcattc tgaactgtg atacgcgcta cagctccaag ccttcaccat ctcctgccc cagcgactga ctccttctac tggtcaccct tgaacaccaa acgcagcagc actgtactca ccccaggagc tcccagtgaa caggcggaga tgctctccag caccagccca accagctgac tctccccgac gaagaatggg tccagaccat gccaatggc tctcccgaga gaaggaga tcatctgtg gctgcccctc cctgtacagc	Homo sapiens Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p> gccttcacgt ggctggggcta tgtaacacgc gccgtgaacc ccatcatcta caccaccttc aacattgagt tccgaaggc ctctctgaag atctccact gctgactctg ctgctgccc gcacagcgc ctgcttccca cctccctgcc caggccggcc agctcaacc ttgcgaaccg tgagcaggaa ggctggggtg gatcgccctc ctctcttag ccccgccagg cctgcagtg ttgccttggc tccatgctcc tcaactgccg cacacctca ctctgccagg gcagtgctag tgagctgggc atggtaccag ccttggggct ggccccagct caggggcagc tcatagagtc cccctccca cctccagtc cctatcctt ggacacaaag atgcagccgc ctctctgac ctctctctgg ggccttaggg ttgctggagc ctgagtcagg gccagaggc tgagttttct cttgtgggg cttggcggtg agcaggcggt ggggagagat ggacagtca caccctgcaa ggccacagg aggaagcaa gctctcttgc cgaggagcca ggcaactca gtcctgggag acccatgtaa ataccagact gcagggttga cccgagagat tcccaagcca aaaccttag ctccctccg cacccgatg tggacctcta ctctccaggc tagtccggac ccacctcacc ccgttacagc tcccaagtg gtttccacat gctctgagaa gaggagccct catcttgaag ggccacagg ggtctatggg gagaggaaat ccttgcccta gccaccctg ctgctctctg acggccctgc aatgtatccc ttctcacagc acatgctggc cagcctgggg cctggcaggg aggtcaggcc ctggaactct atctgggctt gggctaggga catcagaggt tcttgaggg actgctctg ccacactctg acgcaaaacc actttcctt tctattcctt ctggccttc ctctctctg ttctccctcc ctctccactg ctctgcctta gaggagccca cggctaaag gctgctgaaa accatctggc ctggcctggc cctgccccta ggaaggaggg gaagctgcag cttgggagag cccctggggc ctgagactctg taacataact atccgatgca ccaaaactaat aaaacttga cgagtcaact tc </p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p> taaagaaac ggatacattc gaaagcagct atgaacacatg cactaaggtc taataggga A gctggaaaag cagcactcaa gtaatttcac cttagaggga aaaaagggtg attctttct gttcattca tagtttctga gtcctgagaa aggcacaaagt tgctttgctt gggtagtgtct gctgtcagta aatggctgca ggagccgaag tggtaaaact ctgggtctcc agaaatcaga agaaaattt aggaagcccc ttggcatcac gcacctccct ctgggctatg gcattcttga gtcagctgag tagccacctg aactacact gtggggcaga gaactccaca ggtgccagcc aggccgccc acatgcctac tatgcccctt cctatccctg gctatccctg gccatcgctc tcggcaatgg cctgggtgag atggctgtgc tgaaggagcg gcccctgcag actaccacca actacttagt agtgagcctg gctgtggcag acttgctggt gcccacctg gtgatgccct ggggtgtata cctggaggtg acaggtggag tctggaaatt cagccgcatt tgctgtgatg tttttgtcac cctgggatgc atgatgtga cagccagcat ccttaattctc tgtgccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga </p>	Homo sapiens

Homo
sapiens

104 1243 Dopamine Receptor D3 NP_000787.1 MASLSQLSSH LNYTCGAENS TGASQARPHA YVALSYCALI LAIVFGNGLV CMAVLKERAL P
QTTTNYLVVS LAVADLLVAT LVMPWVVYLE VTGGVWNFSR ICCDFVFTLD VMCTASILN

gctcctgtcg ggcgctggcc ctcatgatca cggccgtctg ggtactggcc ttgtgtgtg
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acagtggcac gacatggctg ggctacgtga atagcgccct caaccctgtg atctatacca
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Homo
sapiens

105 1244 Dopamine Receptor D4 NM_000797

atggggaacc gcagcacgc ggaacggag ggcctgctcg ctggggcggc gccggcggc A
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ggggccttcc tgctgtgtg gacgccttc tctgtgtgc acatcacgca ggcgtgtg

106	1244	Dopamine Receptor D4	NP_000788.1	<p>ccgtgctgct ccgtgcccc ccgtgctgctc agcgccgtca cctggctggg ctacgtcaac agcgccctca acccgctcat ctacactgtc ttcaacgag agttccgcaa cgtcttccgc aaggccctgc gtgctgctg ctgagccggg caccgccgga cggccccgg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgcttttgta cgtaataaa acaattctc tccc</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>TERALQTPTN SFIVLAAAD LLLALLVPL FVYSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDREVAVAVP LRYNRQGSR RQLLLIGATW LLSAAVAAPV LCGLNDVVRG DPAVCRLEDR DYVYSSVCS FFLPCPLMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPPSPTPPA PRLPQDPGCP DCAPPAPGLP RGPCGPDPCAP AAPGLPPDPC GPDCAAPPAG LPQDPCGDC APPAPGLPRG PCGPDCAAPP PGLPQDPCGP DCAPPAPGLP PDCGSNCAP PDAVRAAALP PQTPQTRRR RRAKITGRER KAMRVLPPVV GAFLLCWTFP FVWHITQALC PACSVPRRLV SATWLGYN SALNPVIYTV FNAEFNRVER KALRACC</p>	Homo sapiens
				<p>ccgaggagcc tgcgtgctc ctggctcaca gcgctccgg cgaggagagc gggcgagccg A gggggctggg ccggtgsggg cggcgagga ggcggacgag gcgcagagac agcgggcgcg ccggggcgcg gcaegcgcg ggtcggggcc ggctctgccc ttgcgctcc cctcgctcg gatecccgcg ccagcgagc cggtagagag ggaegcgcg gacgcggca gccatggaac cgccccctc cgccggcgcc gagctgcagc ccccgctctt cgccaaagcc tcggagccct accctagcgc ctccccagc gctggcgcca atgcgtcggg gccgccagga ccggggagcg cctgctccct cgccctggga atgcgccatca cgcgctgta ctcggccgtg tgcgcgtgg ggctgctgg caactgctt gtcattgtcg gcagctcgg gtacactaag atgaagacgg ccaccaacat ctacatctc aacctggcct tagccgatgc gctggccacc agcacgctgc cttccagag tgccaaagac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catgactac tacaatatgt tcaccagcat cttcacgctc accatgatga gtgtgaccg ctacatcgt gtctgcacc ctgtcaagg cctggacttc cgcacgcctg ccaaggccaa gctgatcaac atctgtatct gggtcctggc ctcaggcgtt ggcgtgccc tcatgtcat ggctgtgacc cgtcccccgg acggtgcagt ggtgtgcagt ctcagttcc ccagccccag ctggtactgg gacacggtga ccaagatctg cgtgttctc ttccgcttcg tggtgcccat cctcatcacc accgtgtgct atggcctcat gctgctgccc ctgcgagtg tgccctgct gtcgggctcc aaggagaagg accgcagcct gcggcgcatc acgcgcatgg tgctggtggt tgtggggccc ttctgtgtgt gttggggccc catccacatc ttctcatcg tctggagcgt ggtggacatc gaccggcgcg acccgctggt ggtggctgcy ctgacacctg gcacgcgct gggctacgca aatagcagcc tcaacccccg gctctacgct ttcctcgag agaaactcaa gcctgcttc cgcagctct cccgcaagc gtcgcccgc ccagacccca gcagcttcag ccggccccgc gaagccacgg gtcgagagc tgcacccgc tgacccccg ccgatggtcc cgcggtggc cgtgcgcct gaccaggcca tccggcccc agacgcccc ccctagtgt acccgaggc cacatgagc ccagtggag gcgcgagcca tgatgtggag tggggccagt agatagtgcg gagggtttg gaccgcccag atggggcctc tgtttcggag acgggaccgg gccctagat gggcatggg tgggctctg gtttggggcg aggcagagga cagatcaatg gcgagtgcc tctggtctg gtgccccgt ccacggctct aggtggggcg ggaaagccag tgactccagg agaggagcg gacctgtggc tctacaactg agtccttaa</p>	

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	ccaggaaggc ggggcttcaa ccttgagaca gcttcggttt ctaacttgga gccgacttt cggagtggg gggccgggg ccc AVGLIGNVLV MFGIVRYTKM KTATNIYFN LALADALATS GSASSLALAI AITALYSAVC P CKAVLSIDYY NMFTSIFTLT MMSVDRIYAV CHPVKALDER TPAKAKLINI CIWVLASGVG VPIMMMAVTR PRDGAVVCM L QFPSWSYWD TVTKICVFLF AFVVPILIT VCYGLMLLRL RSVRLLSGSK EKDRSLRRIT RMVLVVVGA F VVCWAPIHIF VIVWTLVDID RDPLVVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCRKPCGRP DPSSFSRPRE ATARERTAC TPSDPGGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggctgaac caaacgggtgc catggggaac tgtctgcaca gggtagtat ggggccaggc A cccagagtcc cttatcccta tgcccctcat ttcccctgct gtttgcctt cagtcctttat atctcttctt ttctctctc atctttctc ccttccgct ttttctctt tcttcaaag tcttttctt tctctcttc ctatgtagc cctctagtc cctcttggt cctcccttt gcttttgagt cagttccatc ctggtctctt ggtgccttc cttctgacct tgcactgtc ctccagcccc agctgccctg gcttcccag gactgttctt gctccggctc ttcaggctcc ctgctttgtc ctttccact gtccgactg catctgact ctgcagagac cttgttctcc caccgacct tctctctgt cctccctcc cactgcccc tcaattccca ggagactctt ccggtgtaac tctgatggcc tctctgggt atgtccctca ggcggagctc tccccctcaa ctgagaactc aagtcagctg gacttgaag atgtatgaa ttcttctat ggtgtgaatg atctcttccc agatggagac tatgatgcca acctgagc agtgcctcc tgcactcct gtaacctgct ggatgactct gcactgacct tcttcatct caccagtgc ctgggtatcc tagctagcag cactgtctc ttcattgtt tcagacctct cttccgctgg cagctctgcc ctggtggcc tgctctggca cagctggctg tgggcagtc cctctcagc attgtgtgc ccgtcttggc cccagggcta ggtagcact gcagctctgc cctgtgtagc ctgggctact gtgtctggtg tggctcagcc tttgccagg ctttgcctg aggtgacct gctccctgg gccacagact ggggtcaggc caggtcccag gcctcacct ggggtcact gtgggaattt tctgcacct gatatacag acactgctg tcacctggc cagtggtgct tctgtgtgac gtcttgccat ctttgtctg ttgccattg gtttgttgg agccaaaggg ctgaagaagg cattgggtat ggggccaggc ccttggatga atatccttg ggcctggtt atttctggt ggctcatgg ggtgttcta ggaactgatt tctgtgtgag gtccaagctg ttgctgtgt caacatgtct ggcaccagc gctctggacc tgctgctgaa cctggcagaa gccctggcaa ttttgactg tgtggtactg cctctgctc tcgctctatt ctgccaccag gccaccgca ccctcttgc cctctgtccc cctctggaag gatgtgttc tcatctggac acccttgaa gcaatccta gttctctcc cactgtcaa cctgaaataa agctacact gcctttgtg NP_002027.1 MASSGYVLQA ELSPTENSS QLDFEDVWNS SYGVNDSFPD GDYDANLEAA APCHSCNLLD P DSALPFILT SVLGILASST VLFMLFRPLF RWQLCPGWPV LAQLAVGSAL FSIVPVLPAP GLGSTRSSAL CSLGYCVWYG SAFAQALLLG CHASLGHRLG AGQVPGLTLG LTVGIWGVAA LLTLPVTLAS GASGGGLCTLI YSTELKALQA THTVACLAF VLLPLGLFGA KGLKKALGMG PGPMNIIWA WFIWPHGV VLGLDFLVR KLLLSTCLA QQALDLLNL AEAAILHCV ATPLLLALFC HQATRTLPS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacc tggaccacca ccaatggata tacaatggc aaacaatttt A actcggccct ctgcaactcc tcagggaat gactgtgacc tctatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctctca tcattgggct cgtgggaaac ttactagcct tggctgctcat tgttcaaac aggaacacac tcaactctac caccctctat tcaacaatt tgggtatttc tgataactt ttaccaccg tttgacctac acgaatagcc tactatgcaa tgggctttga ctgagaatc tggatggcct tgttaggat aactgcgcta gtgttttaca tcaacacata tgcagggtg agctttatga cctgcctgag tattgaccgc ttcattgctg tggcgaccc ctacgctac aacaagataa aaaggatga acatgcaaaa ggcgtgtgca tattgtctg gattctagta ttgtctaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaaggatt acatgcattg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgctggg gcatgtttca taggatagt acttccactt ataatcattc tcactgcta ttctcagatc tgcagcaac tctcagaac tgcacacaa aacccactca ctgagaatc tgggtataac aaaaaggct tcaacacaa tattcttatt attgtgtgt ttgttctctg ttctacact taccatgttg caattattca acatatgatt aagaagctc gtttctctaa ttctctggaa ttagcctaaa gacattcgtt ccagatttct ctgcactta cagtatgct gatgaactc aattgctga tggaccttt tatctacttc tttgcagtga aagggtataa gagaaagtt atgaggatgc tgaacggca agtcagtga tcgatttcta gtgctgtgaa gtcagccct gaagaaatt cacgtgaaat gacagaaacg cagatgatga tacattccaa gtcttcaat ggaagtgaa atggattga ttttggttta tagtgacgta aactgtatga caaacttgc aggcattccc ttataaaga aaataattgt tcagcttcca attagtattc ttttatttt tttcattgg gcactttccc atctccaact cggaagtgaag ccaagagaa caacataaag caacacacat aaagcacaat aaaaatgcaa ataaatattt tcatttttat ttgtaacga atacaccaa aggaggcgt cttaataact cccaatgtaa aaagtattgt ttaataaaa aatttaatta ttatttcttg ccaacaaatg gctagaaagg actgaataga ttatatattg ccagatgta atactgtaac atactttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgttct gttctgggtc ataaaacttt gtttaaggaa tcttttgaa taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQMANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALWIVQNR P KKINSTIYS TNLVISDILF TTALPRTIAY YAMGFDWRIG DALCRITLV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFWILVF AQTLP LLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLP LI IILICYSQIC CKLFRTAKQN PLTEKSGVVK KALNTIILII VVFLCFTPY HVAIIQHMIK KLRFSNFLEC SQHSHFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQSVSVS ISSAVKSAPE ENSREMTETQ NMHSKSSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggag tctggccagc ccgagcaacg tggatcctga gagcactccc A aggtaggcatt ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccggtg aggatcaaca cagtggctga acactggga ggaactggtta cttggagtct ggacatctga aacttgctc tgaactgcg cagcgccac cggacgcctt ctggagcagg tagcagcatg cagccgcctc caagtctgt cggacgcgc ctggttgcgc tggttcttgc ctgcggcctg tcgcggtatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gcttttgaa	Homo sapiens

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114	1486	Endothelin B NP_000106.1 Receptor	acatggtgct tttctttcat ctaggagcaa aactgctttt tgagaccgta agaactctct agctttgtgc gtctctgctt aattttata tcttctaagc aaagtgcctt aggatagctt gggatgagat gtgtgtgaaa gtatgtacaa gagaaaaagg aagagagagg aaatgaggtg gggttgagg aaaccatgg ggacagattc ccattcttag cctaacgttc gtcatgtgct cgtcacatca atgcaaaaagg tcctgatatt gtccagcaa aacacagtcg aatgttctca gagtgaattt cgaataaat tgggccaag agctttaat cgttctaaa atatgccaa attttactt tgttttctt ttaatagctt ggccacatg ttgaaaataa gctagtaatg ttgttttctg tcaatatga atgtgatgt acagtaacc aaacccaac aatgtggcca gaaagaaga gcaataataa ttaattcaca caccatagg attctatta taaatcacc acaaactgt tctttaattt catcccaatc actttttag aggcctgtta tcatagaagt cattttagac tctcaattt aaattaattt tgaatcacta atattttcac agtttattaa tatatttaatt tctatttaa attttagatt attttatta ccatgtactg aattttaca tcctgatacc cttctcttct ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaaactaca cacaaaaagc atacttgcat tattataat aaaattgcat tcagtggctt tttaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat ttctttacat actcaaaacc aagatagaaa aagtgctgat cgttcaactt caaaacatgt ttcctagtat taaggacttt aatatagcaa cagacaaaat tattgttaac atgtagtga cagctcaaaa gatttataaa agattttaac ctattttctc cttattatc cactgcta gtggatgat gtccaacac ctttttagtat tgatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgctgtagc taactttata aaagtgaat ataacaatgt aaaaaattat atactggga gatttttttg gttgcctaaa gtgctatag ttactgattt tttattatgt aagcaaaacc aataaaaatt taagtttttt taacaactac cttattttt actgtacaga cactaaatca ttaataacta attgattgtt taaaagaaat ataaatgta caagtggaca ttatttatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaatgccac atttctgtc tctggg	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	SLARSLAPAE VPKGDRTAGS PPRTPSPPC QGPIEIKETF KYINTVVSCL VFVLGIIIGNS TLRLIIYKNK CMRNGPNLI ASLALGDLH IVIDIPINVY KLLAEDWPFQ AEMCKLVFFI QKASVGITVL SLCALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSU VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAFMQFYK TAKDWLFSF YFCLPLAITA FFYTLMTCEM LRKKSQMQIA LNDHLKQRRE VAKTVFCLVL VFALCWLPPLH LSRILKLTLY NQNDPNRCEL LSFLVLVDYI GINMASLNSC INPIALYLV KRFKNCFKSC LCCWCQSFEE QKSLEEKQSC LKFKANDHGY DNFRRSNKYS SS gaattgcgg cgcctcttg cggctccaga gtggagtga agtctggag ctttggagg A agacggggag gacagactgg aggcgtgttc ctccggagt ttctttttcg tgcagacctt cgccgcggg tacagactc cgcgtgtgtc gacgattgt gaggcggtt ggagaggctt catccatccc acccggtcgt cgcggggat tgggttccc gcgacacct cccgggagaa gcagtgcaca ggaagtctt cgaagccgg tgaagccgg gaagctgtgc agcgaagcc gccgcgcgc cgagacccgg gacacggcc accctccgc caccacacc tgcctttctc cggcttctc tgcccccagg gccgcggga cccggcagct gtctgcgac gccgagctcc acggtgaaa aaaaagtga ggtgtaaaag cagcacaagt gcaataagag atatttctc aaatttgctt	Homo sapiens

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cacctcctat tctcttaatt ttgttaaaa ttgttaactgg cagtaagtct tttttgatca
ttcccttttc catatagaa acataatttt gaatgggcca gatgagtta tcatgtcagt

116	1488	Endothelin A Receptor	NP_001948.1	gaaaaataat taccacaaa tgccaccagt aacttaacga ttcttcaactt ctgggggttt tcagtatgaa cctaactccc caccacaaca tctccctccc acattgtcac catttcaag ggccacagt gacttttgtt ggccattttc ccagatgttt acagactgtg agtacagag aaaatctttt actagtgtgt gtgtatat atataacaa ttgtaaattt cttttagccc atctttctag actgtctctg tggaatatat ttgtgtgtgt gatatatgca tgtgtgtgat ggtatgtatg gattaatct aatctaataa ttgtgccccg cagttgtgcc aaagtgcata gtctgagcta aaatctaggt gattgttcat catgacaacc tgccctcagtc cattttaacc tgtagcaacc ttctgattc ataaatcttg taactctgt accattacaa atgggatata agaggcagcg tgaagcaga tgagctgttg actagaata tagggttttg ttgggttgtt tggttgata aagcagatt tggtgtcata ttgtttctg tgctggagca aaagtccata cactttgaag tattatattg ttcttatctt caattcaatg tggtagtgaa attgccaggt tgtctgatat ttctttcaga ctctgccaga cagattgtctg ataataaatt agttaagata attgtgtgg ccataattta ggacagtgaa aataacatca ggttccagt gcttgaattg caaggctaag agtactgcc cttttgtgtg tttagcagtc aatctattat tccactggcg catcatatgc agtataatat gcctataata taagccatag gttcacaca ttttgtttag acaattgtct tttttcaag atgctttgtt tctttcatat gaaaaaaatg cattttataa attcagaaag tcatagattt ctgaaggcgt caacgtgcac tttattatg gactggttaag taactgtggt ttactagcag gaatatctcc aatttctacc tttactacat cttttcaaca agtaactttg tagaaatgag ccagaagcca aggccctgag ttggcagtg ccataaagt taaaataaaa gtttccagaa acctt	Homo sapiens
117	1598	Calcium-Sensing Receptor (CASR)	NM_000388	caacaggcac ctggctgcag ccaggaaagga ccgcacgccc ttctgcgcag gagagtggaa A ggaggagct gtttgccagc accgaggtct tgcggcacag gcaacgcttg acctgagctt tgcagaatga aaggcatcac agggagcctc tgcagtatgt ggcttccaaa gactcaagga ccaccacat tacaagtctg gattgagaa ggcagaaatg gagattcaaa caccacgtct tctattattt tattaatcaa tctgtagaca tgtgtcccca ctgcaggag tgaactgctc caaggagaa acttctgga gcttccaaac tctagctgt ctcctccctt gccctggaga gacggcagaa ccatggcatt ttatagctgc tctgggtcc ttctggcact cacttggcac acctctgctt acgggccaga ccagcagcc caaaagaag gggacattat ccttgggggg ctctttccta ttcatatttg agtagcagct aaagatcaag atctcaaatc aagccggag tctgtggaat gtatcaggtt taatttccgt ggtttcgtt ggttacaggc tatgatattt gccatagagg agataaacag cagccagcc ctcttccca acttgacgct gggatcacagg atatttgaca cttgcaacac cgtttctaag gccttggag ccacctgag ttttgtgtct caaaacaaaa ttgattcttt gaacttgat gatttctgca actgtctcaga gcacattccc	Homo sapiens

tctacgattg ctgtgtgtgg agcaactggc tcaggcgtct ccacggcagt ccacagact ggcaaatctg
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aagcgtcca gcagccttg aggtccacg ggatccacc cctcctctc catcagcag
aagagcaaca gcgaagacc attcccacag cccgagaggc agaagcagca gcagccgctg
gccctaacc agcaagagca gcagcagcag ccctgacc tccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	<p>MAFYSCCWVL LALTWHTSAY GPDQRAQKHG DIILGGLFPI HFGVAAKDQD LKSRPESVEC P</p> <p>IRYNFRGFRW LQAMIFAIEE INSSPALLPN LTLGYRIFDT CNTVSKALEA TLSFVAQNKI</p> <p>DSLNLDEFNC CEHIPSTIA VVGATGSGVS TAVANLLGLF YIPQVSYASS SLLSNKNQF</p> <p>KSELRTPND EHQATAMADI IEYFRWNWVG TIAADDDYGR PGIEKEREAA EERDIDICDFS</p> <p>ELISQYSDEE EIOHVVEVIQ NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA</p> <p>SSSLIAMPQY FHVVGTTIGF ALKAGQIPGF REFLLKVVHPR KSVHNGFAKE FWEETFNCHL</p> <p>QEGAKGPLPV DTFLRGHEES GDRFSNSTA FRPLCTGDEN ISSVETPYID YTHLRISYNV</p> <p>YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAWQV LKHLRLHNF NMGGEQVTFD</p> <p>ECGDLVGNYS IINWHLSPED GSIVFKEVG YNYVAKKGER LFINEEKILW SGFSREVFPFS</p> <p>NCSRDLCLAGT RKGIIIEGPT CCFECVECPD GEYSKEDTAS ACNKPDDFW SNENHTSCIA</p> <p>KEIEFLSWTE PFGIALTLFA VLGIFLTAFL LGVFIKFRNT PIVKATNREL SYLLLFSLLC</p> <p>CFSSSLFFIG EPQDWTCLRL QPAFGISEVL CISCILVKTN RVLLVFEAKI PTFHRRKWWG</p> <p>LNQFLLVFL CTFMQIVICV IWLYTAPPS YRNOLEDEI IFITCHEGSL MALGFLIGYT</p> <p>CLLAAICFFF AFKSRKLLEN FNEAKFITFS MLIFFIIVWIS FIPAYASTYG KFSVAVEVIA</p> <p>ILAA5FGLLA CIFFNKIYII LFKPSRNTIE EVRCSSTAHA FKVAARATLR RSNVSRKRSS</p> <p>SLGSTGSTP SSSI5SKSNS EDPFPQPERQ KQQQLALTQ QEQQQQLTL PQQRSQQQP</p> <p>RCKQKVI5GS GTVTFSL5FD EPQKNAMAHG N5THQNSLEA QKSSDTL5TRH QPL5LP5QCGE</p> <p>TD5LDLTVQET GLQGPVGGDQ RPEVEDPEEL SPALV5SS5Q SFV5SGG5T V5ENV5VNS</p> <p>ggcacgagga acaacctatt tgcaaaagtg gcgcaaacat tcctgcctga caggaccatg A</p> <p>gacacaggtt gttagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag</p> <p>aattaaagg acttgatgg gattgtggtg agagaaagt agagaaagt aagtctctag</p> <p>tttggaagt ttaacaactg aatgtttaaa ctcaaataga cacaaatat tggaagagt</p> <p>gcaggtttg gaggatgaga caatcaactg ttgtgtgag ccacgttag ttgaaatgt</p> <p>ctacgggac ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct</p> <p>gatagtttag atgaaaagag agcatgatat tttaaagcct cagactggat aatatcacct</p> <p>atagaaaagac tatatagaga taagagaggt gggaacaag taaaagctgc gggacactcc</p> <p>taaat5ttaga gtcaaat5ta gagcagaaaa tactagcaa ggggactgaa aagcgtg5gc</p> <p>caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta catttatcat ctcatggcac</p> <p>aggaaaaacg tgatt5aagg agaaggaagc gatccaatgg gaagaagaga tccaatggat</p> <p>cctctatcac gaagatattg agataagaac caatatggat ttgcacccac tgcatttgca</p> <p>gccttgaggt cataagcatc ctcaggaaaa tgcaccaggt gctgctggca agatggaaac</p>	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	<p>gagcagcagc ccagatgcaa gcagaaggtc atctttggca gcggcacggt caccttctca</p> <p>ctgagctttg atgagcctca gaagaacgcc atggcccacg ggaattctac gcaccagaac</p> <p>tccttgaggg ccagaaaaag cagcgatacg ctgaccgcag accagccatt actcccgctg</p> <p>cagtgcgggg aaacggactt agatctgacc gtccaggaaa caggtctgca agacactgtg</p> <p>ggtggagacc agcgccaga ggtggagcac cctgaagagt tgtcccccag actgttagtg</p> <p>tccagttcac agagctttgt catcagttgt gtaggacaga ctgttacaga aaacgtagtg</p> <p>aattcataaa atggaagag agactgggc tagggagagt gcagagaggt ttcttggggt</p> <p>ccaggggatg aggaatgcc ccagactcct ttctctgag gaagaaggga taatagacac</p> <p>atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccatgttccc</p> <p>ttt</p>	Homo sapiens

120	1676	Formyl Peptide Receptor- Like Receptor	NP_001453.1	caacttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tggttcgagg atcctcccat tgggtgtgct tgggtcaacc tttgtcctcg gggctcctggg caatgggctt gtgatctggg tggctggatt ccgagtaca cgcacagtea ccaccatctg ttacctgaac ctggccctgg ctgacttttc tttcacggcc acattaccat tcctcatgtg ctccatggcc atgggagaaa aatggccttt tggctggctc ctgtgtaagt taattcacat cgtgtggag atcaacctct ttggaagtgt ctctctgatt ggttctattg cactggacog ctgcatttgt gtcctgcac cagctgggc ccagaaccac ggcactgtga gtctggccat gaaggatgc gtccggacctt gattctctgc tctagtcctt accttgccag tttcctctct tttgactaca gtaactattc caaatggga cacatactg acttcaact ttgcactcctg gggtggcacc cctgaggaga ggtgaagggt ggcattacc atgctgacag ccagaggat tatccggttt gtcattggct ttagcttgcc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaggggcat gattaaatcc agcgtccct tacgggtcct cactgctgtg gtggtctctt tcttcactg ttggttccc tttcaactgg ttgccctctt ggcacctgtc tggctcaag agatgttgt ctatggcaag tacaaaaatca ttgacatcct ggttaacca acgagctccc tggccttctt caacagctgc ctcaacccca tgccttaact ctttgtggc caagacttcc gagagagact gatccactcc ctgcccacca gtctggagag ggccctgtct gaggactcag ccccaactaa tgacacggct gccaatcttg cttcacctcc tgcagagact gattacagg caatgtgagg atgggtcag gatatatttg agttctgttc atcctacctt aatgccagt ccagcttcat ctacccttga gtcataatga ggcattcaag gatgcacagc tcaagtattt attcaggaaa aatgcttttg tgcctctgat ttgggtctaa gaaatagaca gtcaggctac taaaatatta ttgggaaata caagaagaga aagaccagt gggattgtga ataccctggg taaagtggag ttgggaaata ttgggaaata caagaagaga aagaccagt gggattgtga agacttagat gagatagcg ataataagg gaagacttta aagtataaag taaaatgttt gctgtagggt ttttatagct attaaaaaaa atcagattat ggaagtcttc ttctattttt agtttgctaa gatttttctg tttcttttct ttacatcatg agtggacttt gcattttatc aaatgcattt tctacatgta ttaagatggt catattattc ttcttctttt atgtaaatca ttataaataa ttttcataa gtctgtaag tttaactact cttgaattcc tggataaaac cacacttagt cctgatgtac tttaaatatt tataatctac aggaattggg tagaattttc gtgtttatgt ttatatactg ttatttcaat ttttctacta tcttgctaa gttttcatag aaaaataagg acaagagaa acttgtaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg ttttctggtg ttatatctt attaaatatt cagaaaaatt c TICYNLALA DFSFATLPE LIVSMAMGEK WPFGWFLCKL IHIVVDINLF GSVFLIGFIA LDRICVLHP VMAQHRITVS LAMKVIIVGPW ILALVLTLPV FLFLTIVTIP NGDTYCTFNF ASWGGTPEER LKVAITMLTA RGIIRFVIGF SLPMISIVAIC YGLIAAKIHK KGMIKSSRPL RVLTAVASF KICWFFPQLV ALLGTWLKE MLFYGYKII DIIVNPTSSL AFFNSCLNPM LYFVFGQDFR ERLIHSPTS LERALSEDSA PTNDTAANS SPPAETELQA M	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	cgctgagatc tgtggaggtt ttctctgca aatgcagaaa gaaatcaggt ggaatgatgc A ataaattatgg cctctgctct ggtctctttg ctggcattcc tgagcttggg ctcaggatgt catcatcgga tctgtcactg ctctaacagg gtttttctct gccaagagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaactga ggtttgtcct caccaagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cagatcatcc aaaaaggtgc atttcagga ttgggggacc tggagaaaat agagatctct cagaatgatg tcttgaggtg gatagaggca gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaaggc caacaacctg ctctacatca cccctgaggc cttccagaac cttccaacc ttcaatatct gtaatatcc aacacaggtg ttaagcact tccagatgtt cacaagattc attctctcca aaaggtttta ctgacatcc agataaacat aacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggtgaatg aagaatggga ttcaagaaat acacaactgt gcattcaatg gaaccaact agatgcagtg aatctaagcg ataataataa tttagaagaa ttgcctaag atgtttcca cggagcctct ggaccagtc tctagatat ttcaagaaca aggatcatt cctgcctag ctatggctta gaaaatctta agaagctgag gcccaggtcg acttacaact taaaaaagct gcctactctg gaaaagcttg tcgcccctcat ggaagccagc ctacactatc ccagccattg ctgtgccttt gaaaactgga gacggcaaat ctctgagctt catccaattt gcaaaaaatc tattttaagg caagaagtty attatatgac tcaggctagg ggtcagagat gctctctggc agaagacaat gagtcagct acagcagag atttgacatg agctacactg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtccctct aagccagatg cattcaacc atgtgaagat atcatggggt acaacatcct cagagtcctg atatggttta tcagcatcct ggcatacct gggaacatca tagtctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat ctctgcatg gaatctacct gctgctcatt gcatacgttg atatccatac caagagccaa tatcacaact atgccattga ctggcaaat gggcaaggct gtgatgtgc tggctttttc actgtctttg ccagttaggt gtcagctctac actctgacag ctatcacctt gaaagatgg cataccatca ccatgacct gcagctggac tgcaaggtgc agtccggcca tgcggcagt gtcaggtgta tgggctggat ttttgctttt gcagctgccc tctttcccat ctttggcatc agcagctaca tgaaggtgag catctgcctg cccatgata ttgacagccc ttgtgcacag ctgtatgtca tgtccctct tgtgtcctaat gtcctggcct ttgtgggtcat ctgtggctgc tatatccaca tctacctcac agtgcggaac cccaacatcg tgcctcctc tagtgacacc aggatcgcca agcgcattgc catgctcacc ttcactgact tctctgcat ggcacctt tctttctttg ccatttctgc ctccctcaag gtgccccca tcactgtgc caaagcaaa attctgctg ttctgtttca ccccatcaac tcctgtgcca acccttctc ctatgccatc ttaccaaaa actttcgag agatttcttc attctgtga gcaagtgtg ctgctatgaa atgcaagccc aaatttatg gacagaaact tcatacctg tccacaacac ccatacaagg aatggccact gctcttcag tcccagatc accagtgtt ccattacat actgtccct ctaagtcatt tagcccaaaa ctaaaaacaca atgtgaaaat gtatctgagt attgaatgat aatctctga ttgcctttga aggttatgtc acaaggagct gacagtctt ctacacattt ctactaat taaattctct gcatacctt aaggtaaatt ggtcagggaac tattaattcc atgtgataca ttaggaagct gaattattag taacaacaat aataattaaa gaatgcaata ctgtaaaaa gcggccgcga att MALLLVSLA FLSLGGGHH RICHCSNRVF LCQESKVEI PSDLPNAIE LRFVLTKLRV P IQGAFSGFG DLEKIEISQN DVLEVIADV FSNLPKLHEI RIEKANNLLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNINIHTI ERNSFVGLSF ESVILWLKN GIQEIHNCAF NGTQLDVNL SDNNLEELP NDVFHGASGP VILDISRTI HSLPSYGLN LKKLRARSTY NLKKLPTLEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE </p>	Homo sapiens
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123	1726	G Protein- Coupled Receptor RDC1	U67784	<p>VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFDYDLCNE VVDVTCSPKP DAFNPCEEDIM GYNILRLWIW FISILAITGN IIVLVILTTS QYKLTVPREFL MCNLAFLADLC IGIYLLLIAS VDIHTKSQYH NYAIDWQTGA GCDAAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VQLRHAASVM VMGWIFAFAA ALFPIFGISS YMKVSLCLPM DIDSPLSQLY VMSLLVLNLV AFVVICGCIY HIYLTVRNPN IVSSSDTRI AKRMAMLIPT DFLCMAPISF FAISASLKVP LITVSKAKIL LVLFHFINS ANPFLYAIPT KNFRRDFFIL LSKCGCYEMQ AQIYRTERSS TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN</p> <p>gccaactcgg tgggtgctcg ggtgaataac caggccaaga ccacaggcta tgacacgcac A tgctacatct tgaactggc catggcgac ctgtgggtg tctcacat cccagtcctgg gtgtcagtc tegtgcagca caaccagtgg cccatgggag agtcaagtg caaagtcaca caccatcat tctccatcaa cctcttcagc agcattttct tccacagtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcagcaa gaagatggta cgccgtgctg tctgcactct ggtgtggtg ctggcctct gcgtgtctct gctgacac tactacctga agaccgtcac gtctgcgtcc acaaatgaga cctactgccg gtccttctac cccgagcaca gcatcaagga gtggctgac ggcatggagc tggctccgt tgccttgggc ttgcccgtc cctctccat tatcgtgtc ttctactcc tgcgtgccag agccatcgt ggtccagtg accagagaa gcacagcagc cggaagata tcttctcta cgtggtggtc ttcctgtct gctggttgc ctaccagtg gcggtgtgc tggacatctt ctcctcctg cactacatcc ctttcacctg ccggtgtgag cagccctct tccagggcct gcattgcaca cagtccctgt cgtgtgtgca ctgctgctc caagccttc atcttcagt ctcaggccaa aacagggtc aactacaggt acgagctgat gaaggcctc atcttcagt ctcaggccaa aacagggtc accaagctca tcgatgctc cagagtctca gagacggagt actcgcctt ggacagagc accaaatgat ctgcccgtga gaggctctg gacgggtta ctgttttg aacagggtga tggccctat ggtttctag agcaagcaa agtagcttg ggtcttgatg cttgagtaga gtgaagaggg gagcacgtgc cccctgcac cattctct tctcttgat gacgcagctg tcatttggct gtgctgctg acagtttgc aacaggcaga gctgtgtgc acagcagtc tgtgctcag agccagctga ggacaggctt gcctggact ctgtaagata ggatttctg tgttccctga atttttata tgggtattg tatttaaat ttaagactt atttctcac tattgtgta cttataaat gtattgaaa gttataata ttttaaatat tgtttgggag gcatagtct gacataatt cagagtgtg tagttttaag gttagcgtga cttcagttt tgactaagga tgactaat tgttagctgt ttgaaatta tataatata aatatataa tataatccag tcttgctga aatgtttat ttaccatag ttatatctg tgtggtgtt tgtaccgga cgggatatg aacgaaact gcttggtaac gcagtttgg acattaatag tattgtaag ttacattta aaataaaca aaaaacttc tggactgcaa atctgcacac acaacgaaca gttgcattc agagattct ctaatttgc aagttattt tttttaataa agattttgt ttcctaaaa aaaaaaaaaa aaaaa</p> <p>MDLHFDYAE PGNFSDISWP CNSSDCIIVD TVMCPMPNK SVLLYLSFI YIFIVIGMI P ANSVVWVNI QAKTTGYDTH CYILNLAIAD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTCMSV DRYLSITYFT NTPSSRRKMV RRVCILVWL LAFVCSLPDT YLTKTVTSAS NNETYCRSFY PEHSIKEWLI GMELVSVVLG FAVPFISIIV FYFLARAIIS ASSDQEKHSS RKIIFSYVW FLVCWLPYHV AVLLDIFSIL HYIPFICRLE HALFTALHVT</p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p>MDLHFDYAE PGNFSDISWP CNSSDCIIVD TVMCPMPNK SVLLYLSFI YIFIVIGMI P ANSVVWVNI QAKTTGYDTH CYILNLAIAD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTCMSV DRYLSITYFT NTPSSRRKMV RRVCILVWL LAFVCSLPDT YLTKTVTSAS NNETYCRSFY PEHSIKEWLI GMELVSVVLG FAVPFISIIV FYFLARAIIS ASSDQEKHSS RKIIFSYVW FLVCWLPYHV AVLLDIFSIL HYIPFICRLE HALFTALHVT</p>	Homo sapiens

125	1762	Galanin Receptor GalR1	NM_001480	QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSANTGL TKLIDASRVS ETEYSALEQN AK	atcccgctag aatccgtcca gtctctgctc gcgcaccgtg acttctaagg ggcgcggatt A tcagccgagc tgttttcgcc tctcagttgc agcagagaag cccctggcac ccgactctat ccaccaccag gaagctctcc aaagagctc tcgcccctgtg gacgactcgg aatccctgga aaagccggga gggagtcgga gcgcccagcc cactggggag gtggcgtcgg gcgcgcggga tgccggggga gccctctctg caggagcgc acagtgcact gctgcgcgt cgcgagtgcg gggaagcgc gcgggaagga gcggctccga gcaacaggtg cagcacgcag ccgctccggg agccagggaa aaccgcggc gaagatctgg agcgttaagg cggagagaag ggtctttcca cctgcgcggc tcagccggc ggatccctct tcccagctc cgtggtcgcg cagcgggcgg aggcggggc gcaggggacc ccagtgcctc cgagatcacc gtcccttccc gagaaggctc agctccgggc tcccgaacc accctctctc agaaggtcgc ggcgcaaga cggtgccacc aggcacggc accggatccc cgtcccgtc ggtcgcgcg gcgggggaag ctacgactcc taaaactgca ctctccgtg tttgcgcgg gacctcggc caccgccgc ccctgctatc ccgcctccc tcccgcgcg cccgcgcgt gcgcgggaca gcccgcggg ccatggagct ggcggtcggg aacctcagc agggcaacgc gagctggcg gagcccccg ccccgagcc cgggcccgtg ttccgcatcg gcgtggagaa ctctcgcag ctggtggtgt tcggcctgat cttcgcgtg ggcgtgctg gcaacagcct agtgatcacc gtgctggcg gcagcaagcc gggcaagccg cggagaccca ccaacctgtt catcctcacc ctgagcatcg ccgacctggc ctacctgtc tctgcatcc ccttccagg cctctctac gcgctgcca cctgggtgct ggcgccctc atctgcaagt tcataccta ctcttacc cgttccatgc tggtagagcat cttcaacctg gccgcgatgt ccgtggaccg ctacgtggcc atcgtgcact cgcggcgctc ctcctccctc aggtgtctcc gcaacgcgt gctgggcgtg ggctgcatct gggcgctgtc cattgcaatg gcccgcccg tggcctacca ccaggccctc tccaccgc gcgccagcaa ccagacctc tgcgggagc agtggccga cctcgcacc aagaaggct acgtggtgtg caccttcgtc ttcggctacc tgcgcgcgt cctgctcacc tgcttctgct atgccaagg ccttaatcac ttgcataaa agttgaaga catgtcaag agtctgaag catccaagaa aaagactgca cagacagttc tgggtgtgtt tgtgtgttt ggaatctcct gctgcgcga ccacatcac catctcggg ctgagtttgg agtttcccg ctgacgcgg ctctctctc cttcagaatc accgcccact gcctggcgta cagcaattcc tccgtgaatc ctatcattt tgcatcttc tctgaaaatt tcagggaagg ctataaaca gtgttcaag gtccacttcg caaagattca cactgagtg atactaaga aataaaagt cgaatagaca cccaccatc aaccaattgt actcatgtt gataaaagt agagtatcct tatggttag tttccatata agtggaccag acacagaac aaacagaatg agctagtag cgtgctgca acttgttctc ttaacaagaa tcaagtcgt ttaattaaa tcccagctg gttaaaaagt acttgtatcc atttagaaga ttcctagtc tagtgagaat tatttttcaa ttttatttta gtctaaatt atgtttcaga acaaaaagac aatgctgtac agttttattc ctcttcagac atgaaagga acatatatat tccatatata tgttcaact ttcataagat gtgaactggc ccatcaatat ggtcagggaat atttgcagtc tacattttta agccaattta tttagaaaa aaatttgagc tttaattctt taattttaag agaagtaata ttgtgaacta tgtattttta aatatgatca tggacacaca atgatgaatt ttttggccat ttacatagac atatctatta agtggaaaga	Homo sapiens
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126	1762	Galanin Receptor GalR1	NP_001471.1	aggctttctg aagctctgttt gcacaggtgg cattgtcttc caattgttagc tagcgacacag agctttggaa gcctgtcatt atgagataca gtcggtttac ctacaggttc aatcagtggt tgtactgggtg acctgggatg cagtagtagg cactgttgat tcaaatattat cctgtgaaac tggtctttata gaggtaacaa aacagagtca gagaccactg tcttaacagt ggaagatgca aataagtttt tgagaataaa actggatttt gaaattttac attagtactt gacaaaagt ttcattttgc cttgaatgga acctactaaa aagagagatg aaaaaaac agcaggttg atgagataa taatttctat gggaccaaa actagacaga attcagtaag tcacatgaag taatgtcat gcctgtacat aagcatatt tcattgttga tttagatgac attcaaaaa aatcatggga ctgaatatac ctgggttatc ctatcttga caaatgcacg ctttttcatt aaatttgtaa tgatgtttaa tgaacatttc caccacacat tatttctct aaaaatgta atttgggtt aaaaaccatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtgtg tttacaatga gaaaatgga tgaataat ttcaaatgta gttttcatga caattttata tggatgtgtg tttacaatga gaaaatgga tgaataat ttcaaatgta gttttcatga caattttata	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	MELAVGNLSE GNASWPEPPA PEPGLFGIG VENFVLVVF GLIFALGVLDG NSLVITVLAR P SKPGKPRSTT NLFILNLSIA DLAYLLFCIP FOATVVALPT WVLGAFICKE IHYFFTVSML VSIFTLAAMS VDRYVAIVHS RRSLSLRYSR NALLGVGCIW ALSIAMASPV AYHQGLFHPR ASNQTFCEWQ WPDPRHKAY VVCTFVFGYL LPHHIIHLWA EFGVFPLTPA SFLFRITAHK LAYSNSVNP SKKTAQTVL VVVVFGISW RYKAYQVFKC HIRKDSHLSL TKENKSRIDT PPSTNCTHV IIYAFISENF RKAYQVFKC HIRKDSHLSL TKENKSRIDT PPSTNCTHV ggcagcgggtg gcagcgggtg gcagcgggtg gcagcgggtg gcagcgggtg gcagcgggtg atcgccctcg cagcaaacag acccttcgcc gccttcacga tgactacac tccgacccg cagctgctgc tgcggctctc actgtgcggg cgtgtgcggg agagggcgga gacaggtctc aaggggcaga cggcggggga cgtgtaccag cgtgtgggac gttaccgcag ggagtggcag gagaccttgg cagcgcggga accgcttca ggctcgcc ttaacgggtc cttcgatatg tacgtctgct gggactatgc tgcacccaat ggcactgcc gtgcgtcctg cccctggtac ctgccctggc accacatgt ggctgcaggt ttgcctctcc gccagtgtgg cagtgtggc caatggggac ttgtggagaga ccatacaca ttgtagaacc cagagaagaa tgaggccttt ctggacaaa ggctcatctt ggagcgggtg caggtcatgt acactgtcg ctactccctg tctctcgcca cactgtgctt agccctgtc atcttgagt ttgtcaggcg gctacattgc actagaaact atatccacat caacctgtc acgtctttca tgctgcagc tgcggccatt ctcagccgag accgtctgct acctgcacct ggccctacc ttggggacca ggcccttgcg ctgtggaacc aggcctcgc tgcctgcgc acggcccaga tctgaccca gtaactgctg ggcgccaaact acagtggtt gctgtgtgag ggctctacc tgcacagtct cctgtgtctc gtggaggct cagagaggg ccacttcgc tactacctg tccctggctg gggggcccc gcgcttttcg tcattccctg ggtgacgtc aggtacctgt acgagaacac gcagtgtgg gagcgaacg aagtaagtc catttggtg attatacga ccccatctc catgaccatc ttgattaatt tctcatctt tatccgcat ctgtgacat cctgtccaa gctgaggaca cggcaaatgc tctgcggga ttaccggctg aggtggctc gctccacgt gacgtgggtg ccccctgtg gtgtccaca ggtgtgttt gctcccgta gtaggaaca ggcccgggc gcccctgct tcgcaagct cggctttgag atcttctca gctcctcca gggcttctg gtcagcgtcc tctactgctt catcaacaag gaggtgcagt cggagatccg ccgtggctgg caccactgcc gcctgcgcg cagcctgggc gagagcaac gccagctccc ggagcgcgc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p>ttcggggccc tgcctccggg ctccggcccg ggcgaggtcc ccaccagcgg cggcttgctc</p> <p>tccgggaccc tcccagggcc tgggaatgag gccagccggg agtggaaag ttactgctag</p> <p>gggcccggat ccccggtgct gttcagttag catggtatta ttgagtcca actgctgccc</p> <p>agggccagta cggagagcgc tggggaaatg gtgaaggaaa cagaaaaaag gtccctgccc</p> <p>ttctggagat gacaaactgag tggggaaaac agaccgtgaa cacaaaacat caagtccac</p> <p>acacgtatg gaatggttat gaagggaagc gagaaggggg cctagggtgg tctgggaggg</p> <p>gtctccaagg agtgacact taagccatcc ccgaaagagg tgaagagatg cactttgggg</p> <p>agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttgggaggg</p> <p>aagggctca gcctggctg gagtgaatt aagtcagagc caacaggtg gggagagaca</p> <p>gagaagtggg caggggcacc caagttggga tttcatttca ggtgcattgg agattcttag</p> <p>gagtgctct tgggggtaat attttatttt ttaaaaaatg aggat</p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p>ttcggggccc tgcctccggg ctccggcccg ggcgaggtcc ccaccagcgg cggcttgctc</p> <p>tccgggaccc tcccagggcc tgggaatgag gccagccggg agtggaaag ttactgctag</p> <p>gggcccggat ccccggtgct gttcagttag catggtatta ttgagtcca actgctgccc</p> <p>agggccagta cggagagcgc tggggaaatg gtgaaggaaa cagaaaaaag gtccctgccc</p> <p>ttctggagat gacaaactgag tggggaaaac agaccgtgaa cacaaaacat caagtccac</p> <p>acacgtatg gaatggttat gaagggaagc gagaaggggg cctagggtgg tctgggaggg</p> <p>gtctccaagg agtgacact taagccatcc ccgaaagagg tgaagagatg cactttgggg</p> <p>agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttgggaggg</p> <p>aagggctca gcctggctg gagtgaatt aagtcagagc caacaggtg gggagagaca</p> <p>gagaagtggg caggggcacc caagttggga tttcatttca ggtgcattgg agattcttag</p> <p>gagtgctct tgggggtaat attttatttt ttaaaaaatg aggat</p>	Homo sapiens

130	1813	Gastrin- Releasing Peptide Receptor	NP_005305.1	gctctctggc cttaccacac tctgcgtga accccttgc cctctacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gcttgccctg atcatccggg ctcacagcac tggaaaggagt acaacctgca tgacctcct caagagtacc aacctctccg tggccacctt tagcctcatc aatggaaaca tctgtcacga gcggtatgtc tagattgacc cttgattttg cccctgagg gacgggtttg ctttatgctt acacaggaa ccttgcatcc attgttgtgt ctgtgccctc caaagagcct tcagaatgct cctgagtgtt gtaggtggg gtggggaggc ccaaatgatg gatcacatt atatttgaa agaagc	Homo sapiens
				LIKIFCTVKS MRNVPNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ LTSVGVSVFT LTALSADRYK AIVRPMIDIQA SHALMKICLK AAFIWIISML LAIPEAVFSD LHPFHEESTN QTIFISCAPYP HSNEHPKIH SMASFLVFV IPLSIISVY YFIAKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVIYLYRSYH YSEVDTSMLH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV	
131	1814	Cholecystoki nin B Receptor	NM_000731	atggagctgc tcaagctgaa ccgagagcgtg cagggaaccg gaccggggcc gggggcttcc A ctgtgccgcc cggggcgccc tctctcaac agcagcagtg tgggcaacct cagctgcgag ccccctcgca ttccgaggag cgggacacga gaattggagc tggccattag aatcactctt tacgcagtga tcttctctgat gagcgttga gaaatatgc tcatcatcgt ggtcctggga ctgagccgcc cctgaggagc tgtcaccaat gccttccctc tctcactggc agtcagcgac ctcctgctgg ctgtggcttg catgcccttc accctctc ccaatctcat gggcacattc atctttggca ccgtcatctg caaggcgtt tctacctca tgggggtgtc tgtgagtgtg tccacgctaa gcctcgtggc catcgcactg gagcgtgaca gcgccatctg ccgaccactg caggcacgag tgtggcagac gcgtcccaac gcggtccgctg tgaattgtag cactgggctg ctgtccggac tactcatgtt gccctacccc gtgtacactg tctgtcaacc agtggggcct cgtgtgctgc agtgcgtgca tgcctggccc agtgcgcggg tccgccagac ctggtccgta ctgctgcttc tgcctctgtt cttcatcccg ggtgtggtta tggccgtggc ctacgggctt atctctgcgc agctctactt agggcttcgc ttgacggcg acagtgcag cgacagccaa agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaaagg gcgttgccgg cctgagactg gcgcgggttg cgaagacagc gatggctgct acgtgcaact tccacgttcc cgccctgccc tggagctgac ggcgctgac gctccaggcg cgggatccgg ctcccggccc accagggcca agctgctggc taagaagcg gtggtgcgaa tgtgtctggt gatcgttgtg cttttttttc tgtgttgtt gccagtttat agtgccaaca cgtggcgcg ctttgatggc ccgggtgcac accgagcact ctgggtgct cctatctcct tcatcactt gctgagctac gcctcgccct gtgtcaacc cctggctctac tgcctcatgc accgtcgctt tgcgaggcc tgcctggaaa ctgtgcctgc ctgtgcccc cggcctccac gagctcgccc cagggtctct cccgatgagg acctccccc tccctccatt gcttcgctgt ccaggcttag ctacaccacc atcagcacac tgggcccctg ctgaggagta gaggggctgt gggggttgag gcaggggcaa tgacatgcac tgaccttcc agacatagaa aacacaaacc acaactgaca caggaaacca acacccaaag catggactaa ccccaacgac aggaaaaagt agcttacctg acacaaagg aataagaatg gagcagtaca tgggaaaagg ggcattgcctc tgatatggga ctgagcctgg cccatagaaa catgacactg acctgggaga gacacagcgt ccttagcagt gaactattc	Homo sapiens

132	1814	Cholecystokini nin B Receptor	NP_000722.1	<p>tacacagtgg gaactctgac aagggtgac ctgcctctca cacacataga ttaatggcac tgattgtttt agagactatg gagcctggca caggactgac tctgggatgc tctagtttg acctcacagt gaccttccc aatcagcact gaaaataacca tcaggcctaa tctcatacct ctgaccaaca ggctgttctg cactgaaaaa gttcttcatc ctttccagt taaggaccgt ggcctgccc tctcttctt tcccaactg tcccaaat aataaatgt ttggtctct cctgaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaatcc YAVIFLMSVG GNMLIIVLIG LCRPGAPLLN SSSVGNLSCE PPRIRGAGTR ELELAIRITL P IFGTVICKAV SYLMGVSVSV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQPVGP RVLCQVHRWP SARVRQTVSV LLLLLLFFIP GVMMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLIAKRR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRALSGA PISFIHLLSY ASACVNPLVY CFMHRFRQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP</p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p>ggatctggca gcgcgcgaa gacgagcggg caccggcgcc cgaccggagc gcgccagag A gacgctgggg agccaaagccg acccccgagc agcgcgcgc ggccctgag gctcaaaagg gcagcttcag gggagagacac cccactggcc aggacgccc aggtctgtct gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc gtgtgcagcc cctgccagat gtggaggca gctagctgcc cagaggcatg cccccctgc agccacagc accctgctg ctgttctgc tgcgtctggc ctgccagcca caggtccct ccgctcaggt gatggacttc ctgtttgaga agtggaaact ctacggtgac caggtccacc acaactgag cctgctgccc cctccacgg agtgggtgtg caacagaacc ttcgacaagt attcctgctg gcggacacc ccgcacaata ccacggccaa catctctgc cctggtacc tgccttggca ccacaaagt caacacgct tcgtgttcaa gagatgcggg cccgacggtc agtgggtgcg tggaccccg gggcagcctt ggctgtatgc ctcccagtc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatga cagcagcttc caggtgatgt acacagtgg ctacagctg tccctggggg cctgtctct cgccttggcc atcctggggg gcctcagcaa gctgcactgc accgcgaatg ccattccagc gaatctgttt gcgtccttcg tgcgaaagc cagctccgtg ctggtcattg atgggctgct caggaccccg tacagccaga aaattggcga cgacctcagt gtcagcact ggctcagtga tggagcggg gctggctgcc gtgtggcgcg gggtttcatg caatatggca tcgtggccaa ctactgctgg ctgctgggtg agggcctgta cctgcacaa cctgctggcc tggccacct ccccgagagg agcttcttca gcctctacct gggcacggc tgggtgccc ccattgctgt cgtcgtccc tgggcagtgg tcaagtgtct gttcgagaac gtccagtgt ggaaccagca tgacaacatg ggcttctggg ggtacctgctg gttccccgtc tctctggcca tctgtatcaa tcttctatc tctgtccgca tctgtcagct gctcgtggcc aagctgcggg cagggcagat gcaccacaca gactacaagt tccggctggc caagtccacg ctgacctca tccctctgct gggtccac gaagtgtct ttgcttctgt gacggacgag cagccccagg gcacctgctg ctccgcaag ctcttctctg acctctct cagctccttc caggccctgc tgggtgctgt cctctactgc ttcctcaaca aggaggtgca gtcggagctg cggcgcgctt ggcaccgctg gcgcctggc aaagtgtat gggagagcgc gaacaccagc aaccacagg cctcatcttc gcccgccac ggccctccca gcaaggagct</p>	Homo sapiens

Homo
sapiens

134 1834 Glucagon Receptor NP_000151.1 P
MPPCQQRPL LLLLLLIACQ PQVPSAQVMD FLFEKWKLYG DQCHNLSLL PPTELVCNR P

gcagtttggg aggggtggtg gcagccagga ttcatctgcg gagaccctc ttgctggtgg
cctccctaga ttggtgaga gcccttctg aacctgctg ggaccaccagc taggctgga
ctctggcacc cagaggcgct gctggacaac ccagaaactgg acgccagct gaggtgggg
gggggggagc caacagcagc cccaccctac ccccccacc cagtggtgct gtctgcgaga
ttggccctcc tctccctgca cctgcttctg cctgctgca gagtgagca gagagtgca
ggccgggagt ggggctgctg cctggaactg cctgcaactg tccccacgta tctcggaacg
tcccatgtgc atggaaatgt cctccaacaa taaagagctc aagtgtgctac cgtg

TFDKYSCWPD TPANTANIS CPWYLPWHHK VQHRFVKRC GPDGQWVRGP RQQPWRDASQ
QMDGEEIEV QKEVAKMYSS FQVMYTVGYS LSLGALLAL AILGGLSKLH CTRNAIHANL
FASFVLKASS VLVIDGLLRT RYSQKIGDDL SVSTWLSGCA VAGCRVAADF MQYGIVANYC
WLLVEGLYLH NLLGLATLPE RSFFSLYIGI GWGAPMLFV PWAVVKCLFE NVQCWTSNDN
MGFWWILRFP VELAILNFF IFVRIVQLLV AKLRARQMHK TDYKFRLLAKS TLTLLPLLV
HEVVEAFVTD EHAQGTIRSA KLFFDLFLSS FQGLLVAVLY CFLNKEVQSE LRRWHRWRL
GKVLWEERNL SNHRASSPG HGPPSKELQF GRGGGSQDSS AETPLAGGLP RLAESEPF

Homo
sapiens

135 1925 Gonadotropin Releasing Hormone Receptor NM_000406 A
tggttgctg gtccacttac aaacactttt catattgta tgtctttcca atggttatcc A
tggttgctc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa
agccttttga gttcttcaga aaaataaatt atcttattca agactgattg cttataagga
acttattata gctaataatag taggcacaat ttttttcta attctcctag atgagtcaga
acttagtttt gatgtaggta aaaattttat ggtcacaaat ctgaggtgtg agaaaatctc
tttctctgat actctatata aatagagatg ataaatttt caagtctgga agtagtgaga
gaagctggta attctggaca tatagtga gtaaaaaagg agctcaggta caggactggt
ctaagctgct caagattcag gagacagcca gtacacagag aagctgagga aataatacag
atatactaa aacacttatc taaccttctg tggtaacaag ctctttaaag gggtggatg
atgttggtt cactttttat caccagcaaa ggctaagata atgtatatag taaatattta
gtaaccattt attaaataaa taaatattta agacagaata acaagata ataaatgaac
caataagaat gcaccatcta agtcaaaata gccactttta tcttaacat tgtacctgct
ttggctgctg cagaagcaaa ctgtgttgca ttagacaaat caagctggtg atttaataaa
ttccaatgta agtcttaccg gtattgatga ataactatcc agcactcacc atgaaagtta
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acagtattct cttcaataac tagtttctct atgcattaat gtgtaataac agcaactaca
atatttagat aattataaaa accaaggcaa taatttaaaa atgatttaac cgttttactc
taacttaagc atggattgga tcagtaagat tgattataaa attgaatgc agtcagttgg
attgattcta atttaagtt ttaatttctg tagaataaa ttttaagtga tatatttctc
cagtggttctg gtgctcaaca gtgtgtttga aaagaaaaac aaagaatgtt ttgagaatgt
gttaattcct taagacaatg gattttaatt ggactgtgtg ttttcatttt tcttcattat
cattatacat ctgtatgttg gagagaacac taacactaaa tagtttttag aaagtgtttt
ttgaagtatt ttaaatcata atatcatgac tgacttttga attcaaaaatt aggtgtgac
tatccttctt caacttagaa gagtgtgtg aaagccagac catctgctga ggtgctacag
ttacatgtgg ccctcagaat gcgtttggcc tgctctgttt tagcactctg ttggattacc

136	1925	Gonadotropin NP_000397.1 -Releasing Hormone Receptor	aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg acaaaatttg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggttgaa gctctgtcct gggaaaatat ggcaaacagt gcctctcctg aacagaaatca aaatcactgt tcagccatca acaacagcat cccactgatg cagggaacc tccccactct gacttggtct ggaaagatcc gagtgaagggt tactttcttc cttttctgac tctctgcgac cttaaagtct tctttcttgt tgaacttca gaagtggaca cagaagaaag agaaaggaa aagctctca agaatgaagc tgctcttaaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gcttttctcc atgtatgcc cagccttcat gatggtgtg atcagcctgg accgctccct ggctatcacg aggcctctag ctttgaaaag caacagcaaa gtcggacagt ccatgggttg cctggcctgg atcctcagta gtgtcttgc aggaccacag ttatacatct tcaggatgat tcattctaga gacagctctg gacagacaaa agttttctct caatgtgtaa cacactgcag tttttcaaa tgggtgcatc aagcatttta taacttttcc accttcagct gcctcttcat catcctctt ttcactatgc tgatctgcaa tgcaaaaatc atcttcaccc tgacacgggt ccttcacag gacccccag aactacaact gaatcagtc aagaacaata taccagagc acggctgaag actctaaaaa tgacggttgc atttgccact tcatttactg tctgctggac tccctactat gtcctaggaa tttggtattg gttgatcct gaaatgttaa acagggtgtc agacccagta aatcacttct tctttctctt tgcttttta aacctatgct ttgatccact tatctatgga tattttctc tgtga	1945	Opsin, green- sensitive	atggcccagc agtggagcct ccaaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcacc agtccagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgtcccccga tgggtgtacc acctcaccag tgtctggatg atctttgtg tcattgcac cgttttcaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctggtga acctggcggg cgtgacctg gcagagaccg tcatgcccag cactatcac gttgtgaacc aggtctatgg ctacttcgtg ctgggccacc ctatgtgtgt cctggagggc tacaccgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat tctctggag agatggatgg tggctctgaa gccctttggc aatgtgagat ttgatgcaa gctggccatc gtgggcatg ccttctctg gatctgggct gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccc cggcctgaag acttcatg gcccagact gttcagcggc agctcgtacc ccgggggtgca gttctacatg attgtcctca tggtaacctg ctgcatcac ccaactagca tcatcgtgtct ctgtacctc caagtgtggc tggccatccg agcgggtgca aagcagcaga aagagtctga atccaccag aaggcagaga aggaagtgc gcgcatggtg gtgggtatgg tcttgccatt ctgcttctgc tggggaccat acgccttctt cgcattgctt gctgctgcca acctgggcta ccccttccac	Homo sapiens
137	1945	Opsin, green- sensitive	SDPVNHFFFL FAFLNPFCDP LIYGYFSL atggcccagc agtggagcct ccaaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcacc agtccagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgtcccccga tgggtgtacc acctcaccag tgtctggatg atctttgtg tcattgcac cgttttcaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctggtga acctggcggg cgtgacctg gcagagaccg tcatgcccag cactatcac gttgtgaacc aggtctatgg ctacttcgtg ctgggccacc ctatgtgtgt cctggagggc tacaccgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat tctctggag agatggatgg tggctctgaa gccctttggc aatgtgagat ttgatgcaa gctggccatc gtgggcatg ccttctctg gatctgggct gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccc cggcctgaag acttcatg gcccagact gttcagcggc agctcgtacc ccgggggtgca gttctacatg attgtcctca tggtaacctg ctgcatcac ccaactagca tcatcgtgtct ctgtacctc caagtgtggc tggccatccg agcgggtgca aagcagcaga aagagtctga atccaccag aaggcagaga aggaagtgc gcgcatggtg gtgggtatgg tcttgccatt ctgcttctgc tggggaccat acgccttctt cgcattgctt gctgctgcca acctgggcta ccccttccac	Homo sapiens			

138	1945	Opsin, green- sensitive	NP_000504.1	<p> cctttgatgg ctgacctgcc ggccttcttt gccaaagtg ccaactatcta caaccctggt atctatgtct ttatgaaccg gcagtttcga aactcatct tgcagctttt cgggaagaag gttgacgatg gctctgaact ctccagcgcc tccaaacgg aggtctcatc tgtgtcctcg gtatcgctcg catga MAQWMSLQRL AGRHPQDSYE DSTQSSIFTY TNSNSTRGPF EGPNYHIAPR WYVHLTSVWM P IFVVIASVFT NGLVLAATMK FKLRHPLNW ILVNLAVADL AETVIASTIS VVQVYGYFV LGHPMCULEG YTVSLCGITG LWSLAISWE RWMVVKPFG NVRFDAKLA I VGIAFSWIWA AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IVLMTCCIT PLSIIVLCYL QVWLAIKRAVA KQKESESTQ KAEKEVTRMV VVMVLAFCFC WGPYAFACF AAANPGYFFH PLMRALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA </p>	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	<p> atgtggaacg cgacgccag cgaagagccg gggttcaacc tcacactggc cgacctggac A tgggatgctt ccccgccgca cgaactcgctg ggcgaacagc tgctcagct cttcccccgcg ccgctgctgg cggcgctcac agccacctgc gtggcactct tcgtgtgtgg taccctggc aacctgctca ccatgtgtgt ggtgtcgcg ttccgcgagc tgcgcaccac caccacacctc tacctgtcca gcatggcctt ctccgatctg ctcatcttc tctgcatgcc cctggacctc gttcgctctt ggcagtaccg gccctggaac ttccggcgacc tccctcgcaa actcttccaa ttcgtcagtg agagctgcac ctacgccacg gtgctcaca tcacagcgct gagcgtcgag cgctacttcg ccatctgctt cccactccg gccaaagtgg tggtaacca gggcggggtg aagctggctca tctctgctat ctgggcccgtg gcccttctgca cgcgccggcc catcttctg ctagtcgggg tggagcacga gaacgcacc gcccttggg acaccaaga gtcccgcccc accgagtgtg cgggtcgctc tggactgctc acggtcatgg tgtgggtgtc cagcatcttc ttcttcttc ctgtctctg tctcacggtc ctctacagtc tcatcgcgag gaagctgtgg cggagaggg cggcgcatgc tgtctgtgg tccctcgctc gggaccagaa ccacaagcaa accgtgaaaa tgctgggtgg gtctcagcg gcgctcaggc ttctctcgc ggtcctctc ctctccctgt gccctctccc tctctctga </p>	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	<p> MWNATPSEEP GFNLTLADLD WDASPGNDSL GDELLQLFPA PLLAGVTATC VALFVVGIAG P NLLTMLVVSF FRELRTTNL YLSSMAFSDL LIFLCMLDL VRLWQYRPWN FGDLLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVAVTKGRV KLVIFVIWAV AFCSAGPIFV LVGVEHNGT DPWDTNECRP TEFAVRSGLL TVMVMVSSIF FFLPVFCLTV LYSLIGRKLW RRRGDAVVG ASLRDQNHKQ TVKMLGGSQR ALRLSLAGPI LSLCLLPSL </p>	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823	<p> agcagccaa gcttactgag gctggtggag ggagccactg ctgggctcac catggaccgc A cggatgtggg gggcccacgt ctctcgctg ttgagcccg taccgacctg attgggccac atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtgc ctgtctacaa gcagcagagg agatgccaa caccacctg gctgcccct cctgccccga ttcttctct tgctggccaa cggcaggctc tggcgagtgg gtcacctcc cctgccccga ttcttctct cacttcagct cagagtggag ggtgtgaaa cgggattgta ctatcactg ctggtctgag ccctttccac ctacacctgt ggcctgccc ttgctctggt agctgctggc tgaggaggaa tcttacttct ccacagtga gattatctac accgtgggcc atagcatctc tattgtagcc ctcttcgtgg ccatcacat cctggtgtgt ctccaggagg tccactgccc ccggaactac gtccacaccc agctgttcac cacttttctc ctcaaggcgg gactgtgtgt cctgaaggat </p>	Homo sapiens

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	MDRRWGAHV FCVLSPLPTV LGHMPECDF ITQLREDESA CLQAAEEMPN TTLGCPATWD P GLLCWPTAGS GEWVTLPCPD FFSHFSSSG AVKRDCITTG WSEPFPPYPV ACPVPLELLA EESYFSTVK IYTVGHIS IVALFVAIT I LVALRRLHCP RNYVHTQLFT TFLKAGRVF LKDAALFHSW DTDHCSFSTV LCKVSVASH FATMTNFWL LAEAVYLNCL LASTSPSSRR AFWLVLGAW GLPVLFTGW VSKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGLE LNIIRILVRK LEPAQGSLLHT QSQYWRLSKS TFLFLIPLFGI HYIIFNLPD NAGLGIRLPL ELGLGSFQGF IVAILYCFIN QEVRTAISRK WHGHDPELLP AWRTRAKWTT PPSRAAKVLT SMC	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	caggagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtthtt ctgtgggaac aagttaacac tagatggcag ataacagact gaggagtga ctgttttga ctgtattaaa aaggagatga gccataactg gcggtgctc tttcgccaat gagcctccc aattcctcct gctctttaga agacaagatg tgtgaggga acaagaccac tatggccagc cccagactga tgccctggtt ggtggtcctg agcactatct gcttggtcac agtagggctc aacctgctgg tgctgtatgc cgtacggagt gagcggaagc tccacactgt ggggaacctg tacatcgtca gcctctcgtt ggcggacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgctcatgtc caagtgttca ctgggccgtc ctctctgcct cttttggctt tccatggact atgtggccag cagcgtcc attttcagt tcttcacct gtgcatgat cgtaccgt ctgtccagca gcccctcagg taccttaagt atcgtaccaa gacccgagcc tcggccacca ttctggggc ctggtttctc tcttttctgt ggttattcc cattctagc tggaaactact tcatgcagca gacctcgtg gcgcgaggg acaagtgtga gacagactc tatgatgtca cctgggttcaa ggtcatgact gccatcatca acttctacct gccacactg ctcatgctct ggttctatgc caagatctac aaggccgtac gacaacactg ccagcacagg gactcatca ataggctcct cccttccttc tcagaaatta agctgaggcc agagaacccc aagggggatg ccaagaacc agggaaggag tctccctggg aggttctgaa	Homo sapiens

aaggaaagcca aaagatgctg gtggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tccccagtgt tcttcagcca agagaagtag acaaaactcta
ctgctttcca ctgtatatgt tgcacatgca ggtgcgga gaggggagta gcagggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tggggccagc gagatatcag aggatcagat gttaggtgat agccaatcct tctctcgaac
ggactcagat accaccacag agaccaccc agcaaaagg aaattgagga gtgggtctaa
cacaggcctg gattacatca agtttacttg gaagagctc cgctcgcat caagacagta
tgtatctggg ttgcacatga accgcgaaag gaaggccgc aaacagttgg gttttatcat
ggcagccttc atctctgct ggtccctta ttcatcttc ttcatggta ttgccttctg
caagaactgt tgcaatgaac atttgcacat gttcaccatc tggctgggt acatcaactc
cacactgaac cccctcatc acccttgtg caatgagaac ttcaagaaga cattcaagag
aatctgcat attcgctct aaggaggct ctgaggggat gcaacaaaat gatccttatg
atgtccaaca aggaatataga ggacgaagc ctgtgtgttg ccaggcaggc acctgggctt
tctggaatcc aaaccacagt cttaggggtc tggtagtttg gaaagtctt aggcaccata
gaagaacagc agatggcgtt gatcagcaga gagattgaac tttagaggag aagcagaatc
tttgcaagaa agtcagacct gttcttgtt actgggttca aaagaaaaa aataataaaa
ataaaagaga gagagaatca gacctgttg gaaactcct gctcctcagg aactatggga
gcctcagact cattgtaatt caagcttctc gagtcaagt attgacaact gaagagacac
gtggctaggg ttccactgga gaattgaaaa ggaactctga gccctcctgg aatggagctg
tataactgtg cagagacttt atccatgcca atagttgttg tcccctcca ggggtcacct
tgagaggcat gagagctgtt ccacagggc tatcctctc ctcaaaaact ctcttctgag
cctctttaac agcttctcc agaaccagt tctgaaccac cctgaaaatt ctgccttatt
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aaagagaaat gaaatatttt gaaatggttg cacgttaaaa attaaaaaa ggaatggggg
cagaatgcca tatttttgag ggctgtacta ggtttatctc atttaagccc cacaacaccc
cacaggaggg taattttcta actctagtt gcagaggagc aaattgaggt tcagcaaggt
gagagaggta ccaaaggta catagctagt tatgtgagaa agttagagta cagatcctct
gggtttcag cttattgtag catattttct ccgaaaggca aaaatgtgccc cttttggccc
ggcatggtag ctcaagccta taatcccagc atgttgagag gctgaggtgg gcagatcatt
tgaggccagg agttcaagac cagtctggcc aatatggaga aacctgtct ctactaaaaa
cacaaaaatt atctgggcat ggtggggcat gcctgtatc ccacttactt gggaggccga
ggcacgagaa tcgcttgaa cggggaggtg gaggtggccg tgagccaaga tcacgccact
gcactccagc ctgggcaaca gagcaagact ctgtctcaa aaaaaata caatatatta
acaatgtgcc ctcttaagtg tgcacagata cacatacacg gtattcccaa gagtgtgtgc
agctcaaaat gatattgttg agtagacgaa cagctgacat ggagtccccg tgcacctacg
gaaggggacg ctttgaagga accaagtga tttttatctg tgagtctgt tgtgtttgct
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gaacatgtag ttttacttgg tgtttatgtt gcaactctgt tgtgatttat attttaagc
ttggtgctaa accacaatat gtatagcaca tggagtgctt gtacaagctg atgttttga
tttgtgttc ctcttgcatt gatctgtcaa agtgagatat ttttacctgc ctaaaatatg

Homo
sapiens

P

2120 Histamine H1 NP_000852.1
Receptor

144

atgtttaaaa gcataactcta tgtgatttat ttatttttac ctttctgact cttctggact
 aagaagatgt ttgaaatgt accataaat gttaacagag ttgatattgg gctttctctt
 tggtttctca tcacatttgt aaatgtcttt tcaaaaggat ttactttttg taaaaagctt
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 actttaatcc cggtttcaga agctgcagct ggtctgtttc caggtcagaa accattgttc
 aagaagacct cctgtgagag agttgtctct caggttccct caggaccaaa gaacactcga
 aaagagcact tcacacagac aagtggctaa gtgtccatta ttacacctga acaatcaagg
 caactagtg agagaaactga ttgtgagctc
 MSLPNSSCLL EDKMCENKT TMASPLMPL VVLSSTICLV TVGLNLLVY AVRSERKLHT
 VGNLYIVSL VADLIVGAV MPNNILYLLM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
 LCIDRYRSVQ QPLRYLYRT KTRASATILG AWFLSFLWVI PILGWNHFMQ QTSVRREDKC
 ETDFYDVTWF KVM TALINFY LPTLLMLWFY AKIYKAVROH COHRELINRS LPSFSEIKLR
 PENPKGDARK PGKESPEVL KRPKPDAGG SVLKSPSQTP KEMKSPVVS QEDDREVDKL
 YCFPLDIVHM QAAAEGRSD YVAVNRSHGQ LKTDQGLNT HGASEISEDQ MLGDSQSFSR
 TDSPTTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQQLGFI
 MAAFTLCWIP YFIFFMVIAF CKNCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTEK
 RILHRS

Homo
sapiens

A

2121 Histamine H2 NM_022304
Receptor

145

ctctgcct ccactgactc cagagagga gatccccagt acttgactcc atcacgcaga
 tgggagcagg caccagctat ggagaggat acagctgcgt ctccacatga cccatcctgc
 atgacaccaa agccacgcc agacagtgc tcggaattcta tgcaaaacct gggaagcgga
 gacctacccc agccccgga ggaagctagc ttttcaggag accgtctgag gactggagtt
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 caacacctta gaaggtgtg ctttaattat ttctagaaaa gcagcccaga gtcagtcatt
 gaagccttcc ccacccctg gcaaaaaaaa aaaaactggac acattttgga
 tctgttgga gcttgagtc cagtgtgttg catagtgtc acattgggag cagagaagaa
 gcaaccagg gccctgatca ggggactgag ccgtagagtc ccaggatggc acccaatggc
 acagcctctt cctttgctt ggaactacc gcagtgaaga tcaccatcac cgtggctctt
 gcggtcctca tctcatcac cgttgctggc aatgtgtgc tctgtctggc cgtgggcttg
 aaccgcccgc tccgcaacct gaccaattgt ttcatcgtgt ccttggtat cactgacctg
 ctctcggcc tctgtgtgt gcccttctct gccatctacc agctgtcctg caagtggagc
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 tccattacc tgtcctttct gtctatccac ctgggggtgga acagcagga cgaagaccagc
 aagggcaatc ataccacct taagtgcata gtcaggatga atgaagtga cgggctgggtg
 gatgggctgg tcaccttcta cctcccgccta ctgatcatgt gcatcaccta ctaccgcctc
 ttcaagggtc cccgggatca ggcaagagg atcaatcaca tagctcctg gaaggcagcc
 accatcagg agcaaaaag cacagtga caagcggccg tcatgggggc cttcatcatc
 tgcgtgttc cctacttcac cgcgtttgtg taccgtgggc tgagagggga tgatgccatc
 aatgagggtg tagaagccat cgttctgtgg ctgggctatg ccaactcag cctgaacccc
 atcctgtatg ctgcgtgaa cagagacttc cgaacgggt accaacagct cttctgtgc

146	2121	Histamine H2 Receptor	NP_071640.1	aggctggcca accgcaactc ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc aggaccaaa gccgagaacc caggcaacag gaagagaac ccctgaagct ccaggtgtgg agtggacag aagtcacggc cccccaggga gccacagaca ggtaatagcc cttagccattg gtgcacagga tgggggcaat gggaggggat gctactgatg ggaatgatta agggagctgc tgtttaggtg gtgtgtgttt atgttctagg aactcttcag gagcactttg taaacacctt ctgtcttaac cctcccaacg gcccccacag gtgagaccta gctccctttt aaaaggagca cattaaaatt ctcagaggac ttggcacaagg ccgcacagct ggggcat	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	NM_000912	MAPNGPASSF CLDSTACKIT ITVLAVLIL ITVAGNVVC LAVGLNRRRL NLNCFIVSL P AITDLLGLL VLPFSAIYQL SKWSFGKVF CNIYTSLDM LCTASILNF MISLDRYCAV MDPLRYPVIV TPVRVAISLV LIWVISITLS FLSIHLGWS RNESKGNHT TSKCKVQVNE VYGLVDGLVT FYLPILIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTIAAVM GAFIICWFPY FTAIFYRGLR GDDAINEVLE AIVLWLGAN SALNPILYAA LNRDFRTGYQ QLFCCRLANR NSHKTSLSRN ASQLSRTQSR EPRQEEKPL KLQWSGTEV TAPQGATDR A tgcagcactc accatggaat ccccgatcca gatcttcgcg gggagcctcg gccctacctg cgccccgagc cgctgcctgc cccccacag cagcgccctgg tttcccgctt gggccgagcc cgacagcaac ggcagcgccg gctcggaggga cgcgcagctg gagcccgcg acatctccc ggccatcccg gtcatacga cggcggtcta ctcctgtagt ttcgtcgtgg gcttgggtgg caactcgtcg gtcagtgtcg tgatcatcgg atacacaaa atgaagacag caaccaacat ttacataatt aacctggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacggtctac ttgatgaatt cctggccttt tggggatgbg cgtgcaaga tagtaatttc cattgattac tacaacatgt tcaccagcat accatgacct accatgaga cgtggagccg ctacattgcc gtgtgccacc ccgtgaaggc tttggacttc cgcacacct tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcactgtt ggcactctcg caatagtctt tggaggcacc aaagtcaggg aagacgtcga tgtcattgag tgcctcttg agttcccaga tgatgactac tcctgggtgg acctcttcac gaagatcgc gtcctcatct ttgccttcgt gatccctgtc ctcatacga tcgtctgcta caccctgatg atcctgcgc tcaagagcgt ccggtcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt cctggtggtg gtggcggtt tcgtcgtctg ctggacctcc attcacatat ccatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgcttaggc tatacaaca gtagcctgaa tcccattctc tacgcctttc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccctgcttac ctgagggaca tcgatgggat gaataaacca gtagactag tcgtggagat gtcctctgac ag	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPRK1)	NP_000903.1	MESPIQIFRG EPGTCAPSA CLPNSSAWF PGWAEPDSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVF VGLVGNLSLV MFVIIRYTKM KTATNIYIFEN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDYV NMFTSIFILT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISAILVGCTK VREDVDVIEC SLQFPDDDSY WWDLFMKICV FIFAFVIVPL IIIVCYTILMI LRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV	Homo sapiens
149	2964	Luteinizing	NM_000233	ggccgccccat gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgtctg A	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgcgt gccacgagcg ctgcgcgagc cgctctgccc tgagccctgc aactgcgtgc
ccgacggcgc cctgcgtgc cccggcccca cggcggctct cactgcacta tcacttgctt
acctccctgt caaagtgtc ccatctcaag ctttcagagg acttaatgag gtcatataaa
ttgaaatctc tcagattgat tccctggaaa ggatagaagc taatgccttt gacaaacctc
tcaattgtgc tgaataactg atccagaaca ccaaaatctc gagatacatt gagcccgag
cattataaa tcttcccgga ttaaaatact tgagcatctg taacacaggc atcagaaagt
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cactcaaat atatgaaat ggatttgaag aagtacaag tcatgcattc aatgggacga
cactgacttc actggagcta aaggaaaacg tacatctgga gaagatgcac aatggagcct
tccgtggggc cacaggccg aaaaacctgg atatttctc caccaaattg caggccctgc
cgagctatgg cctagagtcc attcagaggc taattggcac gtcatcctat tctctaaaaa
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gctatgactt ccttaggttc ctgattggc tgattaatat tctagccatc atgggaaaaa
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tgtgcaatct ctcctttgca gacttttgca tggggctcta tctgctctc atagcctcag
ttgattccca aaccaaggcc cagttactata accatgccat agactggcag acagggagtg
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atgtggaac cactctctca caagtctata tattaacct cctgattctc aatgtgggtg
cctcttcat aatttgtgt tgctacatta aaatttattc tgcagttcga aaccagaaat
taatggctac caataaagat acaaagattg ctaagaaaaat ggcaatctc atctcacog
atttcacctg catggcacct atctctttt ttgccatctc agctgcctc aaagtacctc
ttatcacagt aaccaactct aaagttttac tggttctttt ttatcccatc aattcttctg
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tgagcaaat ttgctgtgt aaacgtcggg ctgaacttta tagaaggaaa gatttttcag
cttacacctc caactgcaaa aatggcttca ctggatcaaa taagccttct caatccacct
tgaagtgtc cacattgcac tgtcaaggta cagctctctc agacaagact cgctacacag
agtgttaact gttacatcag taactgcatt attgaattgt tcttaaacct gtaaaaaaaa
attacctgta ccagtaattt taacataaag ggttgattt aggaattat ttatttttag
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ttttgcata cttttttca ttttcgtaatt ttgtattgca tctataaaa atattagttc
ataacagatc agaaatttaa aataagggggc ttttctctca ggtagttga aaaaacact

150 2964 Luteinizing NP_000224.1 Homo sapiens
Hormone/Chor
iogonadotrop
in Receptor

ctagagatgc actgttcaat tcggtacgca ctagcccaat gtggctaaat taaaattaaa
taaatgaga aatgtagttt ctacgtgca ctacgttca agttctcaat ggctacgtca
agttctcaat ggctacgtgt gactagtgt taccatactg gacagacag acacagaata
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gagttagaat tactctgaag ttatgaaca tataatgaa caaattttc cgcc

MKQFSALQL LKLLLLQPP LPRALREALC PEPNCVDPDG ALRCPGPTAG LTRLSLAYLP P
VKVIFSQAFR GLNEVIKIEI SQIDSLERIE ANAFDNLNL SEILIONTKN LRYIEPGAFI
NLPGLKYLSI CNTGIRKFPD VTKVFSSES FILEICDNLH ITTIPGNAFQ GMNESVTLK
LYNGFEEVQ SHAFNGTIT SLELKENVHL EKMNGAFRG ATGPKTLDIS STKLQALPSY
GLESIQRLIA TSSYSLLKLP SRETFNLE ATLTPSHCC AFRNLPTKEQ NFSHSISENF
SKQCESTVRK VSNKTLYSSM LAESELGWD YEYGFCLPKT PRCAPEPDAF NPCEDIMGYD
FLRWLIWLN ILAIMGMTV LFVLLTSRYK LTPVREFMGN LSFADFCMGL YLLIASVDS
QTKGOYNNHA IDWQTSGCS TAGFTVFAS ELSVYTLTVI TLERWHTITY AIHLDQKLRL
RHAILMLGG WLFSSLIAML PLVGVSVMK VSICFPMDE TTLSQVYILT ILILNVVAFV
IICACYIKIY FAVRNPELMA TNKDTKIACK MAILIFTDT CMAPISFFAI SAAFKVPLIT
VTNSKVLVL FYPINSCANP FLYAIFTKTF QRDFLLLSK FGCKRRRAEL YRRKDFSAYT

151 2976 Lysophosphat NM_001401 Homo sapiens
idic Acid
Receptor
Edg2

acggcgcgct gggtcacac tgtcccgccg cggacgggct ttgtggttgg gggcgcgctg A
gagagtgcca ggtgagagct gggtgcgccg tgtggcgccg ggcgcggtg ggtggcgctg
cgttcttgcg agccggcctg caggaggcga ggtcccgccg gcctcccgca cccagcgcg
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ggggccttta tcatctgctg gactcctgga ttggttttgt tacttctaga cgtgtgctgt
ccacagtgcg acgtgctggc ctatgagaa ttcttctctc tccttgctga attcaactct

152	2976	Lysophosphat NP_001392.1 idic Acid Receptor Edg2	gcatgaacc ccatcattha ctctaccgc gacaaagaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accgcccac cagaaggctc agaccgctog gcttctccc tcaaccacac catcttggtt ggagttcac gcaatgacca ctctgtggtt tagaaggga actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccaggcaa ggtgggtgtt gagagagag aaaagtcaac tcatgtactt aaacactaac caatgacagt atttgttctt ggacccaca agacttgata tatattgaaa attagcttat gtgacaaccc tcatcttgat ccccatccct ctgaaaagta ggaagtggga gctcttgcaa tggaattcaa gaacagactc tggagtgtcc atttagacta cactaaactag actttbaaaa gatttttgtt ggtttgtgtc aagtcagaat aaattctggc tagttgaatc cacaacttca tttatataca ggttccctt ttttattttt aaaggatacy tttcacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgctttttaa ctaccataat tccatttttt cccttacata ggaacactgt aagttggaat tatcttttgt ttagaaagca tgcattgaat gtatgtatgc agtatgcctt acttaaaaag attaaaagga tactaatgtt aaatcttcta ggaatataga ctagacttc aaagccagta tttgttttag tcatgaagca acaaatgtct taatcacaa attaaactgt taattaaaat gttgtaacaa gtataaaca ggaatgtaa gtttattacc aaagtgtat gtattccaaa aaagtcatag aagatgaagc actataatat tgttcccata tatttaaaat acccaagtac attctaatta ccagtatatc agaggaaaat tttcgtagtc tttgtaaaat aatatactca tcatagaaaa ctgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca ctttbaaaa gcaaccccca tgtatgccta tatgtgtatt gtataactttt tttacataat tggagtcata ctgtaaaacag ttttataagt agatcttttt cattgcaaaa ttgccacatt tctttatggc attaaaaatt ttacaaaaac ataattttaa tggctatatt atattccatt taatggatgc aactcagttt atttaaccat tcccatgttg ttaactattt aggttgttct taattttcat tattataaag ttgcagaaat ttggtgtg	Homo sapiens
153	3038	G Protein- Coupled Receptor MRG	IFIMLANLIV MVAIYVNRFF EPQCFYNESI AFFYNRSGKH LATEWNTVSK LVMGLGITVC P WLLRQGLIDT SLTASVANLL AIAIERHITV FRMLHTRMS NRRVVVVIV IWTMAIVMGA IPSVGNVIC DIENCSNMAP LYSDSYLVFW AIFNLVTFV MVVLYAHIFG YVRQTRMS RHSSGPRNR DTMSLLKTV VIVLGAFLIC WTPGLVLLLL DVCCPQCDVL AYEKFFLLLA EFNSAMNP II YSYRDKEMSA TFRQILCCQR SENPTGPTE SDRSASSLNH TILAGVHSND HSV ttttgtattt gttgcaccct aagtctgttc atttccttct cctcagctga catttggagc A atagcagtcg atgatgcca cacagacact gcctgagact cagccccctg gagaaacgca gatttcccta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgcca ctgcttgaa atgcctgctt tggaaatctc agtgcctctc tgtacctgtc tgagcccagg gaaatgccat actgtggcac tgcctgcatcc ctgtaggcta cccaaggatg cccaggactg gtttgaaaga gatgagacat ggccaggtgc gtggctcacg cttgtaatcc agcactttg gaggtcaagg cagtggatca caaggtcaga gttgagacca gccaggccaa tatggtgaaa accccatctc tactaaaaat acaaaaaatt agccgggcaa tgggtgtggg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctggaagggt ggaggttcca gtgagctgag atcgcgccac tgcaactccag cctgggtgac agagtggagac tccaactcaa	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaa aaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtcccc aacaacaaga tattgggtct atgtgggtag gcttggggca tctgttaca caggagatgt gttaggggag ggagaacaga tcacaaattc atggagagct attgcagag cagatactcc catccactct gatattagt taatgttcag ctgttcttaa aaagcacacc caacattggg tgttctattc cagctcagga aaatgtagag gcaagggtc tgaggccaga ggacaccact agatggacca ctgctcctga ctgtgatgtt gtggccact caggtcccg caccctcagg tctgggggaa aattgtctgg ttcagccaga gggctggatg gacagtgtt gctgagtcac agatatctct ctcatgtagc cttgtctcc acagtgtga ccaggaggca cagaaacca accctgtatc tcagctctgt ggcgtctttc tcaaaatga gacgaatga accatacata tgcagatgag catggcagtg ggacagcagg ccttgcctt gaatacatt gctctctgg ctgcttggct gtggggccac gaatccctac gggtctttat tgaatggcac cctcatctgg ctgcttggct gctgtctggt ctccctctgt atggtatata tctccactt ggtcgtgct gactgatct atcttggctg ctcggcagtg gggtctttac agtgactct gctaatctat catggatcg tgttttttat ccttgatttc ctggccatat tgtctcctt cctctttgag gtgtgtctct gtctcctggt ggccatcagc acagagcgtt gtgtgtgtt cctcttccc atctgttaca gatgccccg cccaaatac acatctaag ttgtctgac cctcatctgg ggcctgctt tttgcatcaa catagtaaaa tcacttttcc taacttactg gaaacatgta aaggcatgtg tcataattct aaagctttct gggctcttcc atgctatctt ttcacttgg atgtgtgtg cagctctgac tctactcatt agattctgt gctgtctcca gcagaaaaa gccaccaggg tctatgcgtt ggtgcagatc tcggccccc ttgtctact ctggcccta cccctgagcg tggcaccct gataacagat ttcaaaatgt ttgtcaccac ctctattta atttcttgt tctctattt aaacagcagc gccaaacctt tcatttattt ctttgtggg agcctcagaa agaaaaggct gaaggaatct ctcagagtga ttctcaacg ggcgttagca gataagccag aggtggggag gaacaaaaa gcagctggca tcgacccaat ggagcaacca cactctact agcatgtgga gaaccttctt cccaggagc acagggtcga tgtggaaca taatttccca catctgagct ggggaattgt acacatagta accagcctg tctgcatca taaggctgct gcatacaatc aatgctttat tctaataaag ttcagcttcc atggacttcc aaacacacc ctgctgtttt gtggttgaa gagacattaa ctctcttct aggcagtaag cccagtttga atgtgttcca gttccaaaga tgaggggat gggaccagtg gagactttcc tggtaacctg ggaatccaaa taaagacct acaaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> atgagcatcc aaaagaagta tctggaggga gattttgtct ttcctgtgag cagcagcagc ttcctacgga cctgtctgga gccccagctc ggtacagccc ttctgacagc aatgaatgct tcgtgctgccc tgcctctgt tcagccaaca ctgcctaagt gctcggagca cctccaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	MSIQKKYLEG DFVFPVSSSS FLRTLLPEQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSSA FCEQVFIKPE IFLSLGIVSL LENILVILAV VRGNLHSPM YFFLCSLAVA DMLVSNSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NMLAIAMVDY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGMIVFVYS ESKMIVICLI TMFFAMMLLM GTLVYHMFLE ARLHVKRIRAA LPPADGVAPO QHSCMKGAVT ITILGVFIF CWAPFFLHLV LIITCPTNPY CICYTAHENT YLVLMCNV IDPLIYAFRS IELRNTFREI LCGCNGMNLG atggtgaact ccaccacag tgggatgac acttctctgc acctctgga cgcagcagt A tacagactgc acagcaatgc cagtgaatcc ctgggaaaag gctactctga tggaggggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac tttttcatct gcagcttggc tgtggtgat atgctggtga gcgtttcaaa tggatcagaa accattatca tcaccctatt aaacagtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agtccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgtca tcatctgcct catcaccatg ttcttcacca tgcctgctct catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggattgc tgtctctccc ggcactggtg ccatacggca aggtgccaat atgaaggagg cgattacctt gaccatctct attggtgctg ttgttgtctg ctgggccccca ttcttctctc acttaattatt ctacatctct tgtcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcatactg atcatgtgta attcaatcat cgtatcctctg atttatgcac tccggagtca agaactgagg aaaaccttca aagagatcat ctgttgcctat ccccctggag gcctttgtga ctgtctagc agatattaa MVNSTHRGMH TSLHLNRRS YRLHSNASES LGKGYSDGGC YEQLFVSPEV FVTLGVISLL P ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDQSQFTVN	Homo sapiens
157	3058	Melanocortin NM_005912 4 Receptor (MC4R)	atggtgaact ccaccacag tgggatgac acttctctgc acctctgga cgcagcagt A tacagactgc acagcaatgc cagtgaatcc ctgggaaaag gctactctga tggaggggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac tttttcatct gcagcttggc tgtggtgat atgctggtga gcgtttcaaa tggatcagaa accattatca tcaccctatt aaacagtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agtccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgtca tcatctgcct catcaccatg ttcttcacca tgcctgctct catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggattgc tgtctctccc ggcactggtg ccatacggca aggtgccaat atgaaggagg cgattacctt gaccatctct attggtgctg ttgttgtctg ctgggccccca ttcttctctc acttaattatt ctacatctct tgtcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcatactg atcatgtgta attcaatcat cgtatcctctg atttatgcac tccggagtca agaactgagg aaaaccttca aagagatcat ctgttgcctat ccccctggag gcctttgtga ctgtctagc agatattaa MVNSTHRGMH TSLHLNRRS YRLHSNASES LGKGYSDGGC YEQLFVSPEV FVTLGVISLL P ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDQSQFTVN	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor	ccccctggag gcctttgtga ctgtctagc agatattaa MVNSTHRGMH TSLHLNRRS YRLHSNASES LGKGYSDGGC YEQLFVSPEV FVTLGVISLL P ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDQSQFTVN	Homo sapiens

159	3059	(MC4R)	Melanocortin NM_005913 5 Receptor (MC5R)	IDNVIDSVIC SLLASICSLSLSIAVDRYET IFYALQYHNI MTVKRVGIII SCIIAACTVS GILFIYSDS SAVIICLITM FETMLALMAS LYVHMFEMAR LHIKRIAVLP GTGAIRQGAN MKGAITLTIL IGVFVVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGICLILSS RY atgaattcct catttcacct gcattttcttg gatctcaacc tgaatgccac agaggccaac A ctttcaggac ccaatgtcaa aaacaagtct tcaccatgtg aagacatggg cattgctgtg gaggtgtttc tcaactggg tgcacatcagc ctcttgagga acatcttggt cataggggcc atagtgaaaga aaaaaaacct cgaactcccc atgtacttct tcgtgtgcag cctggcagtg gcggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtagatgc agagcccttt gtgcgccaca ttgacaatgt gtttgactcc atgatctgca tttccgtggt ggcacatcag tgcagcttac tggccatgac agtgatagg tacgtcacca tctttacgc cctgcgtac caccacatca tgacggcgag gcgctcaggg gccatcatcg ccggcatctg gctttctgc acggcgtcg gcatgtctt catcctgtac tcagaatcca cctacgtcat cctgtgcttc atctccatgt tcttcgtctt gctgttcttc ctggtgtctc tgtacatata catgttcttc ctggcgcgga ctcacgtcaa gcgcatcgcg gctctgccc gggccagctc tgcgcggcag aggaccagca tgcaggcgcg ggtcacccgc accatgctgc tgggctgtgt taccgtgtgc tgggccccgt tcttcttca tctcacttta atgctttctt gccctcagaa cctctactgc tctcgttca tgtctcactt caatatgtac ctcatactca tcatgtgtaa ttcggtgatg gaccctctca tatatgcctt ccgacagccaa gagatcgga agaccttaa ggagattatt tgctgcctg gtttcaggat cgctgcagc tttccagaa gggattaa	Homo sapiens
				atgaattcct catttcacct gcattttcttg gatctcaacc tgaatgccac agaggccaac A ctttcaggac ccaatgtcaa aaacaagtct tcaccatgtg aagacatggg cattgctgtg gaggtgtttc tcaactggg tgcacatcagc ctcttgagga acatcttggt cataggggcc atagtgaaaga aaaaaaacct cgaactcccc atgtacttct tcgtgtgcag cctggcagtg gcggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtagatgc agagcccttt gtgcgccaca ttgacaatgt gtttgactcc atgatctgca tttccgtggt ggcacatcag tgcagcttac tggccatgac agtgatagg tacgtcacca tctttacgc cctgcgtac caccacatca tgacggcgag gcgctcaggg gccatcatcg ccggcatctg gctttctgc acggcgtcg gcatgtctt catcctgtac tcagaatcca cctacgtcat cctgtgcttc atctccatgt tcttcgtctt gctgttcttc ctggtgtctc tgtacatata catgttcttc ctggcgcgga ctcacgtcaa gcgcatcgcg gctctgccc gggccagctc tgcgcggcag aggaccagca tgcaggcgcg ggtcacccgc accatgctgc tgggctgtgt taccgtgtgc tgggccccgt tcttcttca tctcacttta atgctttctt gccctcagaa cctctactgc tctcgttca tgtctcactt caatatgtac ctcatactca tcatgtgtaa ttcggtgatg gaccctctca tatatgcctt ccgacagccaa gagatcgga agaccttaa ggagattatt tgctgcctg gtttcaggat cgctgcagc tttccagaa gggattaa	
160	3059	(MC5R)	Melanocortin NP_005904.1 5 Receptor (MC5R)	MNSSFLHFL DLNLNATEGN LSGPNVKNKS SPCEDMGIAV EVFLTGLVIS LLENILVIGA P IVKNKNLHSP MYFFVCSLAV ADMLVSMSSA WETITIYLN NKHLVIADAF VRHIDNVFDS MICISVVASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TCGGIVFILI SESTYVILCL ISMFFAMLFLLVSLYIHMFLLARLTHVKRIA ALPGASSARQ RTSMQGAVTV TMLLGVFTVC WAPFFLHLTL MLSCPQLNYC SRFMSHFENMY LILIMCNSVM DPLIYAFRSQ EMRKTFKELI CCRGFRIACS FPRRD ggagaggggtg tgagggcaga tctgggggtg cccagatgga aggaggcagg catgggggac A accacaggcc ccttggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tcttctctg acaggactat ggctgtgcag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac aggagcccg tgcctggagg tgtccatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgc caccatcgcc aagaacggga acctgactc acctgttac tcttctatc gctgctggtc cttgtcgagc ctgtggtga gcgggagcaa cgtgctggag acggcgtca tctcctgctt ggaaggccggt gcactggtg cccgggtgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc tggggcgcca tgcgcgtgga cgcctacatc tccatctct acgactgag ctaccacagc atcgtgacc tggcggggc gcggcaagcc gttgcgcca tctgggtggc cagtgtctc ttcagacgc tcttcatcgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgtt gctcatggcc gtgctgtacg tccacatgct gggccgggccc tgcagcagc cccaggggcat cgcccggtc	Homo sapiens
				MNSSFLHFL DLNLNATEGN LSGPNVKNKS SPCEDMGIAV EVFLTGLVIS LLENILVIGA P IVKNKNLHSP MYFFVCSLAV ADMLVSMSSA WETITIYLN NKHLVIADAF VRHIDNVFDS MICISVVASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TCGGIVFILI SESTYVILCL ISMFFAMLFLLVSLYIHMFLLARLTHVKRIA ALPGASSARQ RTSMQGAVTV TMLLGVFTVC WAPFFLHLTL MLSCPQLNYC SRFMSHFENMY LILIMCNSVM DPLIYAFRSQ EMRKTFKELI CCRGFRIACS FPRRD ggagaggggtg tgagggcaga tctgggggtg cccagatgga aggaggcagg catgggggac A accacaggcc ccttggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tcttctctg acaggactat ggctgtgcag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac aggagcccg tgcctggagg tgtccatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgc caccatcgcc aagaacggga acctgactc acctgttac tcttctatc gctgctggtc cttgtcgagc ctgtggtga gcgggagcaa cgtgctggag acggcgtca tctcctgctt ggaaggccggt gcactggtg cccgggtgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc tggggcgcca tgcgcgtgga cgcctacatc tccatctct acgactgag ctaccacagc atcgtgacc tggcggggc gcggcaagcc gttgcgcca tctgggtggc cagtgtctc ttcagacgc tcttcatcgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgtt gctcatggcc gtgctgtacg tccacatgct gggccgggccc tgcagcagc cccaggggcat cgcccggtc	
161	3061	(MC1R)	Melanocortin NM_002386 1 Receptor (MC1R)	ggagaggggtg tgagggcaga tctgggggtg cccagatgga aggaggcagg catgggggac A accacaggcc ccttggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tcttctctg acaggactat ggctgtgcag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac aggagcccg tgcctggagg tgtccatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgc caccatcgcc aagaacggga acctgactc acctgttac tcttctatc gctgctggtc cttgtcgagc ctgtggtga gcgggagcaa cgtgctggag acggcgtca tctcctgctt ggaaggccggt gcactggtg cccgggtgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc tggggcgcca tgcgcgtgga cgcctacatc tccatctct acgactgag ctaccacagc atcgtgacc tggcggggc gcggcaagcc gttgcgcca tctgggtggc cagtgtctc ttcagacgc tcttcatcgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgtt gctcatggcc gtgctgtacg tccacatgct gggccgggccc tgcagcagc cccaggggcat cgcccggtc	Homo sapiens
				ggagaggggtg tgagggcaga tctgggggtg cccagatgga aggaggcagg catgggggac A accacaggcc ccttggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tcttctctg acaggactat ggctgtgcag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac aggagcccg tgcctggagg tgtccatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgc caccatcgcc aagaacggga acctgactc acctgttac tcttctatc gctgctggtc cttgtcgagc ctgtggtga gcgggagcaa cgtgctggag acggcgtca tctcctgctt ggaaggccggt gcactggtg cccgggtgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc tggggcgcca tgcgcgtgga cgcctacatc tccatctct acgactgag ctaccacagc atcgtgacc tggcggggc gcggcaagcc gttgcgcca tctgggtggc cagtgtctc ttcagacgc tcttcatcgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgtt gctcatggcc gtgctgtacg tccacatgct gggccgggccc tgcagcagc cccaggggcat cgcccggtc	

162	3061	Melanocortin 1 Receptor (MC1R)	NP_002377.2	MAVQGSQRRRL LGSLSNSTPTA IPQLGLAANQ TGARCLEVSI SDGLFISLGL VSLVENALVW P		Homo sapiens
163	3079	Melatonin Receptor type 1a	NM_005958	HSQELRLTLK EVLTCWS cgcgcgagc cttaaacaagt ggtcgggcgg gcgagcagg cgggcgatgg ccctgcggcc A gggacgcgaa cagggacccat gcagggaac gcagcgccgc tgcccaacgc ctcccagccc gtgctccggc gggacggcg gcggccctcg tggctggcgt ccgcctagc ctgcgtctc atcttcacca tctgtgtgga cactctgggc aacctctgg tcatctgtc ggtgtatcgg aacaagaagc tcaggaaacgc aggaacatc ttgtgtgga gcttagcggg gccagacctg gtggtggcca ttatccgta cccgttggtg ctgattcga tatttaacaa cgggtgggaa ctgggctatc tgcactgcca agtccatggg tctctgatgg gcttagcgt catcggtccc atatcaaca tcacggcat cggcatcaac cgctactgct acatctgcca cagtctcaag tacgacaaac tgtacagcag caagaactcc ctctgctacg tgcctctcat atggctcctg acgtggcgg ccgtcctgcc caacctcgt gcagggactc tccagtacga cccgaggatc tactcgtgca ccttcgcca gtcgctcagc tccgctaca ccatacgct ggtggttttc cacttctcgc tcccctgat catagtcatc ttctgttacc tgagaatatg gatcctgggt ctccaggtca gacagagggt gaaacctgac cgcaaaccca aactgaacc acaggacttc aggaattttg tcaccatggt ttgtgttttt gtctctttg ccatttgctg ggctcctctg aacctcattg gcttggcgt ggcctctgac cccgccagca tgggtccctag gatcccagag tggtgtttg tggccagtta ctacatggcg tatttcaaca gctgcctcaa tgccattata tacgggctac tgaacaaaaa ttccagggaag gaatacagga gaattatagt ctgcgtctgt acagccaggg tgttctttgt ggacagctct aacgacgtgg ccgatatgggt taaatggaaa ccgtctccac tgatgaccaa caataatgta gtaagggtgg actccgttta aaaaagcacc acgttcgggg tgagatggac acgtgcgca agcctcgtc cttagacagat gtctgggaaa gcagagtggg ggaggaaact tccaactttt acctggctgc tgccatagtt tctgagctaa cgtgctgtca gcattataaa cccctccaat ctactagta agagaagtac agaattgtatg gagagtaca tgttaactga ggaatgggt tcagggtcgg ggtgagagta agctgctgaa tgcatctcagg ggaaggagt tgcaaaactt tattgtaaat gagtgccaca aaaggggtaa ttgcattctt cttcactttt tgaagacttc tagcagaaaa atgaagaga attttatta taaatgagca aatggaacaa ttttttttct gtaaatggaa caaacatga aagtggggtg agtgcctctt attacagagg gaaaggctga acataaatca gttaatggct catcaacaat		Homo sapiens

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaacacca caaacctttc agctggcaga gttagcattg gtagctata ctcatggtca taaatgtttg ccgctctata ttacaagtgg tgcatgcaac cagataaaga actaaatcat aggccgggca cagtcgctca cacctgtaac ctcagcactt tgggaggctg aggtgggcag atcaactgag ttcaaggatt tgagaccacc ctgggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gacacgcct gtaatcccg ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagttacat tccaacttag gctacagaat gagactctgc ccaaaaaaa aaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> MQNGSALPN ASQVLRGDG ARPSWLASAL ACVLIFTIV DILGNLLVL SVYRNKKLRN P AGNIFVLSLA VADLVVAIYP YPLVMSIFN NGWNLGYLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLTLAVAL PNLRACTLQY DPRIYSCCTFA QSVSSAYTIA VVVFHFLVPM IIVIFCYLRI WILVLQVRQR VKPDRKPKLK PQDFRNFTVM FVVFVLEAIC WAPLNFIGLA VASDPASMVP RIPEWLFVAS YMYAFNSCL NAIYGLLNQ NFRKEYRRII VSLCTARVFF VDSSNDVADR VKWKPSPLMT NNNVVVDSV </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttgtaacta caaggcctc agtgaggga ggtcgagag gc</p> <p>VILSVLRNRK LRNAGNLFV SLALADLVVA FYYPYLILVA IFYDGMALGE EHCKASAFVM</p> <p>GLSVIGSVFN ITAIAINRYC YICHSMAYHR IYRRWHTPLH ICLIWLTWV ALLPNFFVGS</p> <p>LEYDPRIYSC TFIQTASTQY TAAVVVIHFL LPIAVVSFCY LRIWLVLOA RRAKAPESRL</p> <p>CLKPSDLRSF LTMFVVVFIF AICWAPLNCL GLAVAINPQE MAQIPEGLF VTSYLLAYFN</p> <p>SCLNAIVYGL LNQNFRREYK RILLALWNPR HCIQDASKGS HAEGLSQSPAP PIIGVQHQQAD</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>AL</p> <p>tgtttgctgt ctggacctgg ctgctgatcc tgagctgctt gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggccac cctagcgggtt cccacccctt atggctgtat tggctgtaag</p> <p>ctacccagc cagaataccc accggctcta atcatcttta tgtctgggc gatggttattc</p> <p>accatcgttg tagacctaatt cggcaactcc atggtcattt tggctgtgac gaagaacaag</p> <p>aagctccgga attctggcaa catcttcgtg gtcagtctct ctgtggccga tatgtggtg</p> <p>gccattacc catacccttt gatctgcat gccatgtcca ttgggggctg gcatctgagc</p> <p>cagttacagt gccagatggt cgggttcac acagggctga gtgtggctgg ctccatcttc</p> <p>aacatcgttg caatcgctat caaccgttac tgctacatct gccacagcct ccagtacgaa</p> <p>cggatcttca gtgtcgcaa tacctgcatc tacctggta tcacctggat catgaccgtc</p> <p>ctggctgtcc tgcccaacat gtacattggc accatcgagt acgatccctg cacctacacc</p> <p>tgcatcttca actatctgaa caaccctgtc ttcactgtta catcgtctg catccacttc</p> <p>gtctccctc tctcctagt gggtttctgc tactgtgaga tctggaccaa agtgcgtggcg</p> <p>gccctgacc ctgcaggga gaatcctgac aaccaacttg ctgaggttcc caattttcta</p> <p>accatgttg tgatcttct cctcttctga gtgtgctggt gccctataa cgtgctcact</p> <p>gtcttggtgg ctgtcagtcc gaaggagatg gcaggcaaga tcccaactg gctttatctt</p> <p>gcagctact tcatagcta ctccaacagc tgcctcaacg ctgtgatcta cgggctcctc</p> <p>aatgagaatt tccgaagaga atactggacc atcttccatg aggcccgtag cctggccgcg</p> <p>ttcttccctg gctcatcag tgatatctgt gagatgcagg aggcccgtag cctggccgcg</p> <p>gccgtgccc atgtctcgga ccaagctggt gaacaagacc gtgcccagtc ctgtcctgct</p> <p>gtggaggaaa ccccgatgaa tgtccggaat gttccattac ctggtgatgc tgcagctggc</p> <p>cacccgacc gtgcctctgg ccaccctaag cccattcca gatcctcctc tgcctatcgc</p> <p>aaatctgct ctaccacca caagtctgtc tttagccact ccaagggtgc ctctggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gcctctggtc acccaagtc tggcactgtc</p> <p>taccctaagc ctgcctctgt ccatttcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatttc aagcctgctt ccagcaaccc caagcccatc</p> <p>actggccacc atgtctctgc tggcagccac tccaagtctg cctcagtcg tggcaccagc</p> <p>caccctaacc ccatcaagcc agctaccagc catgctgagc ccaccactgc tgactatccc</p> <p>aagcctgcca ctaccagcca ccctaagccc ctgtctgctg acaaccctga gctctctgcc</p> <p>tcccatgccc ccgagatccc tgccattgccc caccctgtgt ctgacgacag tgacctccct</p> <p>gagtcggcct ctagccctgc cgtggggccc accaagcctg ctgcccagca gctggagctc</p> <p>gacacacatg ctgaccttcc tgacctact gtagtacta ccagtaccaa tgattaccat</p> <p>gatgtcgtgg ttgttgatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc</p> <p>tcgtaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCGCKLPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTKNKKLR P NSGNIFVWSL SVADMLVAIY PYPLMLHAMS IGGWDLSQLQ QMVGFIITGL SVVGSIFNIV ATAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGTIE YDPRTYTCIF NYLNNPVFTV TIVCIHFVLP LLIVGFYVR IWKVLAARD PAGQPNQNL AEVRNFTMF VIFLLFAVCW CPINVLTVLV AVSPKEMAGK IPNWLIALY FIAYFNCLN AVIYGLNEN FRREYWTIEH AMRHPILFFP GLISDIREMQ EARLILAPARA HARDQAREQD RAHACPAVEE TPMNVNRNVL PGDAAGHPD RASGHPKPHS RSSAYRKSA STHKSVFESH SKAASGHLPK VSGHSPASG HPKSATVYPK PASVHFKGDS VHFKGDSVHF KPDSVHFKPA SSNPKPITGH HVSAGSHSKS AFSATSHPK PIKPATSHAE PTTADYKPA TTSHPKPAAA DNPELSASHC PEIPAIAHPV SDDSDLPESA SSPAAGPTKP AASQLESMTI ADLPDPTVVT TSTNDYHDVV VVDVEDDPDE MAV	Homo sapiens
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgctt ccagcttgta gaggcggtcg tggaggaccc agaggaggag A acgaaggga agaggcggt ggtggaggag gcaaaagcct tggacgacca ttgttggcga ggggcaccac tccgggagag gcggcgctgg gcgtcttggg ggtgcgcgc gggagcctgc agcgggacca cgggtggaaac gcggctggca ggctgtggac ctgcctctca ccaccatggt cgggtcctt ttgtttttt tcccagcgat ctttttggag gtgtcccttc tccccagaag ccccggcagg aaagtgttc tggcaggagc gtcgtctcag cgctcggtgg ccagaatgga cggagatgc atcattggag ccctctctc agtccatcac cagcctccgg ccgagaaaagt gcccagagg agtgtgggg agatcaggga gcagtgatggc atccagagg tggaggccat gttccacacg ttggataaga tcaacgcgga ccggtctctc ctgcccaca tcaccctggg cagtggatc cgggactcct gctggcactc ttccgtggct ctggaacaga gcattggagt cattaggagc tctctgatt ccattcgaga tgagaaggat gggatcaacc ggtgtctgcc tgacggccag tccctcccc caggcaggac taagaagccc attgcgggag tgatcggtcc cggctccagc tctgtagcca ttcaagtga gaacctgtc cagctcttcg acatccccc gatcgcttat tcagccacaa gcctcgacct gactgacaaa actttgtaca aatacttct gagggttgc cctctgaca ctttgaggc aagggccatg cttgacatag tcaaacgtta caattggacc tatgtctctg cagtccacac ggaagggaat tatggggaga gcggaatgga cgcttcaaa gagctggctg ccagggaagg cctctgtatc gccattctg acaaaatcta cagcaacgct ggggagaaga gctttgaccg actcttgcc aaactccgag agaggcttcc caaggctaga gtgtgtgtct gcttctgtga aggcattgaca gtgcgaggac tcctgagcgc catcgcgcg cttggcgctg tggcgagtt ctcaactcatt ggaagtgtg gatgggcaga cagagatgaa gtcatggaag gttatgagt ggaagccaac gggggaatca cgataaagct gcagtcctca gaggtcaggt catttgatga ttattctctg gcaacatcgg tccagtgcc gccttccagg cacagggaat ccttggttcc ctgagttctg gcaacatcgg tccagtgcc gccttccagg acaccttctg gaaaatccca actttaaacg aatctgaca ggcaatgaaa ccttagaaga aaactatgct caggacagta agatggggtt tgtcatcact gccatctat ccattggcaca tgggctgcag aacatgcacc atgcccctg ccctggccac gtggccctc gcgatgccat gaagccatc gacggcagca agtgtctgga ctctctc atctcctcat tcattggagt atctggagag gagggtgtgt ttgatgagaa aggagacgct cctggaaggt atgatatcat gaatctgcag tacactgaag ctaatcgcta tgaactgtg cactgtggaa cctggcatga aggagtgtc aacattgatg attacaaaat ccagatggaac agagtggag tgggtcggtc	Homo sapiens

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Glutamate Receptor 1	3094	Metabotropic NM_000839 Glutamate Receptor 2	171	sapiens	Homo sapiens
KVPERKCGEI	REQYGIQORVE	AMFHTLDKIN	ADPVLLPNIT	LGSEIRDSCW	HSSVALEQSI
EFIRDSLISI	RDEKGINRC	LPDQSLPPG	RTKKPIAGVI	PGSSSSVAIQ	VQNLLQLFDI
PQIAYSATSI	DLSDKTLKY	FLRVPSDTL	QARAMLDIVK	RYNWTYVS AV	HTEGNYGESG
MDAFKELAAQ	EGLCIAHSDK	IYSNAGEKSF	DRLLRKLRER	LPKARVVVCF	CEGMTVRGLL
SAMRRLGWVG	EFSLIGSDGW	ADRDEVIEGY	EVEANGGITI	KLQSPVRSF	DDYFLKLRLD
TNTRNPWFPE	FWQHRFCRL	PGHLEPNF	KRICTGNESL	EENYVQDSKM	GFVINAIYAM
AHGLQNMHHA	LCPGHVLCD	AMKPIDGSKL	LDFLIKSFI	GVSGEVWFD	EKGDAPEGYD
IMNLQYTEAN	RYDYVHVGTW	HEGVLNIDDDY	KIQMNKSGV	RSVCSEPCLK	GQIKVIRKGE
VSCCWICTAC	KENEYVQDEF	TCKACDLGMW	PNADLTGCEP	IPVRYLEMSN	IESIIAIAFS
CLGILVTLFV	TLIFVLYRDT	PVKSSSREL	CYIILAGIFL	GYVCPFTLIA	KPTTSCYLO
RLLVGLSSAM	CYSALVTKTN	RIARILAGSK	KKICTRKPRF	MSAWAQVILIA	SILISVQLTL
VVTLIIMEPP	MPILSYPSIK	EYLLICNTSN	LGWVAPLGN	GLLIMSCTYY	AFKTRNVNPN
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172	3094	Metabotropic NP_000830.1 Glutamate Receptor 2	aggtcgctt tgaccgctt ggtgatggt ttggcgggt caacatctt acatatctg gtgcaggcag tggcgctat cgctaccaga aggtggggt ctgggcagaa ggcttgact tgacacacag cctcatccca tgggctctac cgtcagccgg cccctggcc gcctctcgt gcagtgcgc ctgcctccag aatgaggtga agagtgtgca gccgggcgaa gtctgctgt ggctctgcat tccgtgccag ccctatgagt accgattgga cgaattcact tgcgtgatt gtgctctggg tctactggcc aatgcagcc tgcgtgctg ttctgaactg cccaggagt acatccgtg gggcgatgc tgggcttgg gacctgtac catcgctgc ctcggtgccc tgccaccct gtttgcgtg ggtgtctttg tgcggcaca ttccacacca gtggtcaagg cctcaggtc ggagctctg tacatctgc tgggtgtgt cttcctctg tactgcatga cctcatctt catgccaag ccataccgg cagtgtgtac ttacggcgt cttgggtttg gcactgctt ctctgtctg tactagccc tgcacacca gaccaaccg attgcacga tcttcggtg ggcgcggag ggtgcaccg gccacgctt catcagctt gcctcacagg tgccatctg cttgcactt atctgggct agtgcctat cgtgctgct tggctggtg tgagggcacc gggcacagg aaggacag ccccgaaag cgggaggtg gtgacactg gctgaacca ccgcgatgca agtatgttg gctcgtgct ctacaatgt cctcctatg cgctctgac gcttatgct tcaatactt lcaagtgcg cgaatactt aacgaggcca agttcatgg cttcaccatg tacaccact gcatcatgt gctggcattg ttgccatct tctatgtcac ctccagtgac taccgggtac agaccaccac catgtgcgtg tcagtgcgc tcagcggctc cgtggtgctt ggtgcctct ttgcgcccc gctgcacatc atcctcttc agccgcagaa gaacgtggt agccaccgg caccaccag cgtcttggc agtgcgtg ccagggccag ctccagctt ggcacagggt ctgctccca gttgtcccc actggttgc atggcgtga ggtggtgac tgcacacgt catcgcttg a	Homo sapiens
173	3095	Metabotropic NM_000840 Glutamate Receptor 3	MGSLALLAL LPLWGAAG PAKVLTLEG DLVLGLFPV HQKGPAEDC GPVNEHRGIQ P RLEAMFALD RINRDPHLLP GVRLGAHILD SCCKDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSVDSIQ FFNWTYVSTE ASEGDTGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRLIQLK PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDGGAL ESVAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNN RNPWFREFWE QRFRCSFRQR DCAHSLRAV PFEQESKINF VNAVYAMAH ALHNMHRALC PNTTRLCDAM RPVNGRRLYK DFVLNVKEDA PFRPADTHNE VRDFRFGDGI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLPWASP SAGPLAASRC SEPCLQNEVK SVQPEVCCW LCIPCPY EY RLDEFTCADC GLGYWPNASL TGCFLPQ EY IRWGDAWAVG PVTIACLGAL ATLFVLGVFV RHNATPVVKA SGRELCTILL GGVFLCYCMT FIFIAKPSTA VCTLRLRLGLG TAFSVCYSAL LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISQV LLIVAWLVG EAPGTGKETA PERREVTLR CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPENFNEAK FIFTMYTTC IWLALLPIF YVTSSDYRVQ TTTMCVSVSL SGSVVLGCLF APKLHIILFQ PQKNVWSHRA PTSRFGSAAA RASSLGQGS GSQFVPTVCN GREVDSTTS SL cttttgtgtc ggtatgagag gaccaacct gagccagagc ccgggtgtcag gctcaccgcc A gccgctgcca ccgcggtcag ctccagttcc tgccaggagt tgcggtgcg aggaattttg tgacaggctc tgttagtctg ttcctccctt attgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacctt tgatatctcc cagaggtaca	Homo sapiens

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174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p>tggttggttg caccacaggt tccatcatc ctgtttcaac ccagaagaa tgtgtgcaca cacagactgc acctcaacag gttcagtgct agtggaaactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacggtgtgc aatggcgagg aagtccctga ctcaccacc tcatctctgt gattgtgaat tgcagttcag ttctgtgtgt tttagactgt tagacaaaag tgctcacgtg cagctccaga atatggaac agagtaaat acaacccta gtacctttt ttagaaacag tacgataaat ttttttgag gactatata atgtagtgac tagaactttc taggctgagt ctatgcccc tattattaac aattcccca gaacatggaa ataaccattg tttacagagc tgagcattgg tgacagggtc tgacatggct agtctactaa aaaaacaaa aaaaaaacaa aaaaaaaa acaaaagaa aaaaataaaa tacggtggca atattatgta accttttttc ctatgaagtt tttgtaggt cttgttgta actaatttag gatgagtttc tatgttgat attaaagtta cattatgtg aacagattga tttctcagc acaaaataaa aagcatctgt attaatgtaa agatactgag aataaacct tcaaggtttt</p> <p>DRGIQRLEAM LFAIDEINKD DYLLPGVKLG VHIIDTCSDR TYALEQSLEF VRASLTQVDE AEYMCPCDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFOIPOISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILRFENWTY VSTVASEGDY GETGIEAFEQ EARLRNICIA TAEKVGRSNI RKSYSVIRE LLOKPNARVV VLFMRSDDSR ELIAAASPRAN ASFTWVASDG WGAQESIIG SEHVAYGAI LELASQPVQ FDRYFQSLNP YNNHRNPWFR DFWEQKFQCS LONKRNHRRV CDKHLAIDSS NYEQESKIMF VNAVAYAMAH ALHKMQRTLC PNTTKLCDAM KILDGKKLYK DYLLKINFTA PFNPNKDDAS IVKDFDGDG MGRYNVFNFQ NVGGKYSYLK VGHWAETLSL DVNSIHWSRN SVPTSCSDP CAPNEMNMQ PGDVCCWICI PCEPYEYLAD EFTCMDCGSG QWPTADLTGC YDLPEDYIRW EDAWALGPVT IACLGFMCTC MVTVFIRHN NTPLVKASGR ELCYILLFGV GLSYCMTEFF IAKPSVICA LRRGLGSSF AICYSALLTK TNCIARIFDG VKNGAQRPKF ISPSSQVFIC LGLILVQIVM VSVWLILEAP GTRRYTLAEK RETIVLKCNV KOSMLISLT YDVLVILCT VYAFKTRKCP ENFNEAKEFIG FTMYTTCTIIV LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VLGCLFAPK VHILFQFQK NVVTHRLHLN RFSVSGTGTT YSQSSASTYV PTVCNGREVL DSTTSSL</p> <p>ccagtgaca aggaggtggg agaggttagc agcatgggt acgcggttgg ctgccctcag A tccccctgct gctgaagctg cccgtgcccag gccaccccag gccgtggggc caggggcccgtg ccagggctag gagtggcct gccgttcag gccgttcag gattccag agccttgga agagaggtt gggctggtg tgggcccggc tggccttgg cctgctctc agcctttacg gccccctgat gccttctcc ctgggaagc ccaagggca cctcacatg aattccatcc gcatagatgg ggacatcaca ctgggagggc tgttccggt gcatggcccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggctggag gccatgctgt tggccctgga tgcatacaac aacgacccg acctgctgc taacatcag ctgggccc gcattctgga cacctgctcc agggacccc atgcccctga gcagtgcctg accttctg aggcgtcat cgagaaggat ggacagagg tccgctggtg cagtggcgcc ccaccatca tcaccaagcc tgaacgtgtg gtgggtgtca tgggtgttc agggagctg gtctccatca tgggtggccaa catccttgc ctcttcaaga taccatcag cagctacgcc tccacagcgc cagacctgag tgacaacagc cgtaacgact tcttctccg cgtgggtgccc tcggacacgt accaggccca ggccatgggt gacatgctcc gtgccctcaa gtgtccacag</p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p>ccagtgaca aggaggtggg agaggttagc agcatgggt acgcggttgg ctgccctcag A tccccctgct gctgaagctg cccgtgcccag gccaccccag gccgtggggc caggggcccgtg ccagggctag gagtggcct gccgttcag gccgttcag gattccag agccttgga agagaggtt gggctggtg tgggcccggc tggccttgg cctgctctc agcctttacg gccccctgat gccttctcc ctgggaagc ccaagggca cctcacatg aattccatcc gcatagatgg ggacatcaca ctgggagggc tgttccggt gcatggcccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggctggag gccatgctgt tggccctgga tgcatacaac aacgacccg acctgctgc taacatcag ctgggccc gcattctgga cacctgctcc agggacccc atgcccctga gcagtgcctg accttctg aggcgtcat cgagaaggat ggacagagg tccgctggtg cagtggcgcc ccaccatca tcaccaagcc tgaacgtgtg gtgggtgtca tgggtgttc agggagctg gtctccatca tgggtggccaa catccttgc ctcttcaaga taccatcag cagctacgcc tccacagcgc cagacctgag tgacaacagc cgtaacgact tcttctccg cgtgggtgccc tcggacacgt accaggccca ggccatgggt gacatgctcc gtgccctcaa gtgtccacag</p>	Homo sapiens

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176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	<p> caccttttcc cttcttgccg tcccgccgtg cttgtactct tggccttttc tgtgtctcct ttctggctct tgcctccgcc tctctctctc atcctctttg tccctagctc ctcctgcttt cttgggtccc accagtgtca cttttctgcc gttttctttc ctgttctcct ctgcttcatt ctgtccagc cattgctccc ctctccctgc caccctccc cagttcacca aaccttcacat gttgcaaaag agaaaaaag aaaaaaatc aaaaacaaa aaagccaaaa cgaatacaaaa tctcgagtg gttgccaagt tctgctcct cctgtgggcc tctgtgtgtg tccctgtggc ccgcagcctg ccgcctgcc ccgcctatct ccgctgtgtc ttgcccgcct gccccgcccg tctgcctct gtctgcccgc cctgcccgc gcccctctc gccgaccaca cggagtccag tgcctgggtg tttgtgtgtg gttattgacg acaatgtgtg gcgcctgatt gtttttatac caagaacatt tctaataaaa ataaacacat ggttttgcaa aaa MPGKRGGLGW WARLPCLLL SLYGPMPSS LGKPKGPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEKGIHRLE AMLFALDRIN NDPDLLPNT LGARILDTCs RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGASGSS VSIMVANILR LFKIPQISYA STAPDLSDNS RYDFFSRVP SDTYQAQAMV DIVRALKNY VSTVASEGSY GESGVEAFIQ KSRDGGVCI AQSVKIPREP KAGEFDKIR RLLETNARA VIIFANEDDI RRVLEAARRA NQTHFFWVG SDSWGSKIAP VLHLEVAEG AVTILPKRMS VRGFDRIYSS RTLDNNRRNI WFAEFWEDNF HCKLSRHALK KGSVKKCTN RERIGQDSAY EQEGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPMDP VDGTLQKLYI RNVNFSGIAG NPVTENENGD AGRYDIYQY QLRNDSAEYK VIGSWTDHLH LRIERMHPG SGQQLPRISG SLPCQGERK KTVKGMPCW HCEPCTGYQY QVDRTYCKTC PYDMRPTENR TGCRPIPIK LEWGSFWAVL PFLAVVVGIA ATLFWITFV RYNDTPIVKA SGRELSYVLL AGIFLCVATT FLMAEPDLG TCSLRRIFLG LGMSISYAAL LTKTNRIYRI FEQKRVSVA PRFISASQL AITFSLISLQ LLGICVWFVV DPHSVVDVQ DQRTLDPRFA RGVLCDDISD LSLICLLGYS MLLMVTCTVY AIKTRGVPEY FNEAKPIGFT MYTTCIVWLA FIPIFFGTSQ SADKLYIQTT TLTVSVSLSA SVSLGMLYMP KVYIILFHE QNVPRKRSL KAVVTAATMS NKFTQKGNFR PNGEAKSELG ENLEAPALAT KQYVYTYTNH AI </p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p> acaaaatggt cctttagaaa atacatctga attgctggct aatttcttga ttgcgactc A aacgtaggag atcgcttgtt cgtagctatc agaaccctcc tgaattttcc ccaccatgct atctttattg gcttgactc ctttctctaa atggtccttc tgttgatcct gtcagtctta ctttgaaaag aagatgtccg tgggagtga cagtcacgtg agaggaggt ggtggctcac atgccgggtg acatcattat tggagctctc ttttctgttc atccaccgct tactgtggac aaagtccatg agaggaaagt tggggcggtc cgtgaacagt atggcattca gagagtggag gccatgctgc ataccctgga aaggatcaat tcagaccoca cactcttgcc caacatcaca ctgggctgtg agataaagga ctcctgtctg cattcggtg tggccctaga gcagagcatt gagttcataa gagattccct catttcttca gaagaggaag aagccttggt acgctgtgtg gatggctcct cctcttccct ccgctccaag aagccctag taggggtcat tgggcctggc tccagttctg tagccattca ggtccagaat tttctccagc ttttcaacat acctcagatt gcttactcag caaccagcat ggatctgagt gacaagactc tgttcaataa tttcatgagg gttgtgcctt cagatgtctc gcaggcaagg gccatgggtg acatagttaa gaggtacaac tggacctatg tatcagccgt gcacacagaa ggcaactatg gagaaagtgg gatggaagcc ttcaaaagata tgtcagcgaa ggaagggtt tgcctcgccc actcttaca aatctacagt </p>	Homo sapiens

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181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> KKEQGVHRL E AMLYALDRN ADPELLGVR LGARLDTCS RDTYALEQAL SFVQALIRGR GDGDEGVRC PGVPLRPA PPERVAVVG ASASSVSIMV ANVRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNYVSTLA SEGNYGESV EAFVQISREA GGVCIQSIIK IPREPKEGF SKVIRRLMET PNARGIIIFA NEDDIRRVLE AARQANLTGH FLWVGSDSWG AKTSPILSLE DVAVGAITIL PKRASIDGFD QYFMTSRLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKCTGEERIG RDSYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LLQYIRAVRF NGSAGTPVMF NENGDAAGRY DIFQYQATNG SASSGGYQAV GQWAETLRD VEALQWSGDP HEVPSSLCSL PCGPGERKKM VKGVPCCWHC EACDGYRFQV DEFTCEACPG DMPTPNHTG CRPTPVVRLS WSSPWAAPPL LLAVLGIVAT TTVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAACV AARLFLGLG TTLSYSALLT KTNRIYRIFE QGKRSVTPPP FISPTSQLVI TFSLTSLQV GMIAWLGARP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGCLGYSL LMVCTVYAI KARGVPETFN EAKPIGFTMY TTCIIWLAFV PIFFGTAQSA EKIIYIQTTL TVSLSLASV SLGMLYVPKT YVILFHPEQN VQKRKRSILKA TSTVAAPPKG EDAEAHK gaattcccaa caccaggga attttgtat ttttagtaga gattgggttt caccatgttg A gccaggatgg tctccatctc ttgacctcg gatcctctg gcttggctc caaagtgtc gggattacag gcatgagta ccatatccag ccaactgcag tcattcttat ggggcaaca cttggtgaa cccaggttt ctaagatac aaacccatg gcaacaccaa gcatctta ggaataggca cctggctgac tccaggcatt ctaataatag agacacctg gcgaactcag </p>	Homo sapiens

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Homo
sapiens

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 cccaacatga accgcacagg ctgccagctt atccccatca tcaaatgga gtggcattct
 ccttgggtg tgggtgctgt gtttgttga atattggaa tcatgccac cacctttgtg
 atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acgcgaactt
 agttacgtgc tctaaccgg gattttctc cgttctccga cgtatccacc gaattttt aatgattga
 gcaccagata caatcatatg ctcttccga cgtatccacc gaatttttga cagggggaag
 agctatgcag cccttctgac caaaacaaa cgtatccacc gaatttttga cagggggaag
 aaatctgtca cagcgcccaa gttcattagt ccagcatctc agctggtgat caccttcagc
 ctcatctccg tccagctcct tggagtgttt gtctggtttg ttgtggatcc cccccacatc
 atcattgact atggagagca gcggacacta gatccagaga aggccagggg agtgcctcaa
 tgtgacattt ctgatctctc actcatttgt tcaattggat acagtatcct cttgatggtc

Metabotropic
Glutamate
Receptor 8

3100

183

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	actgtactg ttatgcaa taaacgaga ggtgtccag agaqttaa tgaagccaaa cctattggat ttaccatgta taccacctgc atcatttggg tagctttcat ccccatcttt tttggtacag ccagtcagc agaaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgcttcagt atctctggc atgtctata tgcccaagg ttatattata attttcatc cagaacagaa tgttcaaaa cgcaagaga gttcaaggc tgtgtgaca gctgccacca tgcaaacgaa actgatccaa aaaggaaatg acagaccaaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaacc aacacttct ctaccaagac aacatatatc agttacagca atcattcaat ctgaacacag gaaatggcac aatctgaaga gacgtggat atgatcttaa atgatgaaca tgagaccgca aaaaatcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtctgt aggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaaccgt ttatacaat aaaccaatg agtgcgaagc taaagtattg cttattcatg agcagttaa acaaatcaca aaaggaaaac taatgttagc tcgtgaaaaa aatgctgttg aataaataa tgtctgagt tattcttga ttttctgtg attgtgagaa ctcccgctcc tgtccacat tgtttaact gtataagaca atgagtctgt ttcttgtaat ggctgaccag attgaagccc tgggtgtgctg taaaaataa tgcaatgatt gatgcacgca atttttata caataaatt atttctaata ataaaggaat gttttgcaaa aaaaaaaaa aaaaactcga g	Homo sapiens
185	3212	Opioid mu-type Receptor	gaaattccgg ctataggcag aggaagaatg cagatgctca gctcgggtccc ctccgctga A cgctcctctc tgtctcagcc agactgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaagga agcgctgag gcgcttgaa cccgaaagt ctggtgctc ctggtctacct cgacacggg tgcgcgcg gcctcagta ccatggacag cagcgtgccc cccacgaacg ccagcaattg cactgatgcc ttggcgtact caagtgtct cccagcacc agccccggtt cctgggtcaa cttgtccccc ttagatgga accgtgcga cccatgcgt ccgaaccgca ccaacctggg cgggagagac agcctgtgct ctccgaccgg cagtcctcc atgatcacgg ccatcacgat catggccctc tactccatcg tgtgctgtgt ggggtctctt ggaaacttcc	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPNTNA PTGSPSMITA STLPFQSVNY RTPRNAKIIN FAFIMPVLII YVIIKALVTI EQONSTRIRQ atgaacactt ggtccctggc acaggcaacc aactacttcc ctctatacca	SNCTDALAYS ITIMALYSIV LMGTWPFGTI VCNWILSSAI TVCYGLMLIR PETTFQTVSW NTRDHPSTAN cagccccacc aagtgccctt tgctgggtact tgctgagcct cgtacacctgt	SCSPAPSPGS CVVGLFGNFI LCKIVISIDY GLPVMFMATT LKSVMRLSGS HFCIALGYTN TVDRTNHQLE tgcgtgcagc cattgggac catctcttcc ggcctgtgct catggggccac	WVNLSHLDGN VMYVIVRYTK YNMFTSIFTL KYRQGSIDCT KEKDRNLRI SCLNPVLYAF NLEAETAPLP cccaacatca accacgggcc aaggtcaaca gacctcatca tgggctctgg	LSDPCGNRT MKTATNIYIF CTMSVDRYIA LTFSHPTWYW TRMLVVVAV LDENFKRCFR EFCIPTSSNI ccgctctggc tcctgtcgct cggagctcaa tcggtagcct gcacgtctgg	NLGGRDSLCP NLALADALAT VCHPVKALDF ENLVKICVFI FIVCWTPIHI LDENFKRCFR EFCIPTSSNI accaggaag agccacagt gacagtcaa ctccatgaac ttgtgacctc	Homo sapiens
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	atgaacactt ggtccctggc acaggcaacc aactacttcc ctctatacca	gagtggtgct tgctgggtact tgctgagcct cgtacacctgt	ccgctctggc tcctgtcgct cggagctcaa tcggtagcct gcacgtctgg	ccgctctggc tcctgtcgct cggagctcaa tcggtagcct gcacgtctgg	accaggaag agccacagt gacagtcaa ctccatgaac ttgtgacctc	Homo sapiens	

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p> tga tggctggccc tggactatgt ggcagcaat gctccgtca tgaatctgt gctcatcagc tttgaccgt acttctcgt gactcgccc ctgagctacc gtgcaagcg cacacccgcg cgggcagctc tgatgatcg cctggcctgg cgtggttctt ttgtgtcttg ggcacccagc atctcttctt ggcagctacat ggtaggggag cggacgatgc tagctgggca gtgctacatc cagttctctt cccagcccat catcacctt ggcacagcca tggctgcctt ctacctcctt gtcacagtca tgtgacgct ctactggcg atctacggg agacagagaa ccgagcacgg gagctggcag ccttcaggg ctccgagcg ccaggcaaa ggggtggcag cagcagcagc tcagagaggt ctgagccagg gctgagggc tcaccagaga ctctccagg ccgctgtgtt cgtgtgtgc gggcccccag gctgtgcag gctacagct ggaaggaga agaggaaag gacgaaggct ccatggagtc cctcacatcc tcagagggag aggagcctgg ctccgaagtg gtgatcaaga tgccaatggt ggaccccgag gcacaggccc ccaccaagca gccccacgg agctcccaa atacagtcaa gagccgact aagaaaggcg gtgacgagc tggcaaggcg cagaagcccc gtgaaagga gagctggcc aagcgaaga ccttctcgt ggtcaaggag aagaaggcgg ctggaccct gagtgccatc ctctggcct tcactctcac ctggacacgg taacaatca tgggtgtgtt gtccacttc tgcaaggact gtgttccga gacctgtgg gagctgggt actgggtgtg ctacgtcaac agcaccatca acccatgtg ctacgcactc tgcaacaaag ccttcggga cactttcgc ctgctgtctg tttgcccgtg ggacaagaga cgctggcgca agatcccaa ggcctctggc tccgtgcacc gactccctc ccgccaatgc tga </p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p> tga tggctggccc tggactatgt ggcagcaat gctccgtca tgaatctgt gctcatcagc tttgaccgt acttctcgt gactcgccc ctgagctacc gtgcaagcg cacacccgcg cgggcagctc tgatgatcg cctggcctgg cgtggttctt ttgtgtcttg ggcacccagc atctcttctt ggcagctacat ggtaggggag cggacgatgc tagctgggca gtgctacatc cagttctctt cccagcccat catcacctt ggcacagcca tggctgcctt ctacctcctt gtcacagtca tgtgacgct ctactggcg atctacggg agacagagaa ccgagcacgg gagctggcag ccttcaggg ctccgagcg ccaggcaaa ggggtggcag cagcagcagc tcagagaggt ctgagccagg gctgagggc tcaccagaga ctctccagg ccgctgtgtt cgtgtgtgc gggcccccag gctgtgcag gctacagct ggaaggaga agaggaaag gacgaaggct ccatggagtc cctcacatcc tcagagggag aggagcctgg ctccgaagtg gtgatcaaga tgccaatggt ggaccccgag gcacaggccc ccaccaagca gccccacgg agctcccaa atacagtcaa gagccgact aagaaaggcg gtgacgagc tggcaaggcg cagaagcccc gtgaaagga gagctggcc aagcgaaga ccttctcgt ggtcaaggag aagaaggcgg ctggaccct gagtgccatc ctctggcct tcactctcac ctggacacgg taacaatca tgggtgtgtt gtccacttc tgcaaggact gtgttccga gacctgtgg gagctgggt actgggtgtg ctacgtcaac agcaccatca acccatgtg ctacgcactc tgcaacaaag ccttcggga cactttcgc ctgctgtctg tttgcccgtg ggacaagaga cgctggcgca agatcccaa ggcctctggc tccgtgcacc gactccctc ccgccaatgc tga </p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	gagagctcca atgactccac ctacgtcagt gctgtgtcct ctaatatgag agatgatgaa ataacccagg atgaaaacac agttccact tccctgggccc attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccag accccaaaa gtgactcatg taccceact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcctgcaa aaaagaagcc tcctccttcc cgggaaaaa aagtcaccag gacaatttg gctattctgt tggctttcat catcacttgg gccccataca atgtcatggt gctcattaac accttttgg cactttgcat ccccaacact gtgtggacaa ttgttactg gctttgttac atcaacagca cstatcaacc tgcctgtctat gcactttgca atgccacctt caagaagacc tttaaacacc ttctcatgtg tcattataag aacataggcg ctacaagta a	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	FEVFEIVLVA GSLSLVTIIG NILVMVSIVK NRHLQTVNNY P FLFSIACADL IIGVFSMNLV TLYTVIGWYP LGPVVCDLWL ALDYVVSINAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWPAAIL FWQFIVGVRT VEDGECYIQF FSNAAVTFGT AIAAFYLPVI IMTVLYWHIS RASKSRKKD KKEPVANQDP VPSLVQGR I VKPNNNMPS SDDGLEHNI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS GQNGDEKONI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILLAFITW APYNVMVLIN TFCAPCIPT VWTIGYWL CY INSTINPACY ALCNATEFKKT FKHLLMCHYK NIGATR CCTGCGAGTG CCGATGTTC GATACTGGCA CAGCAGCAGG TGCCGGAAGG TCTTTTAA A A GGTGCGGTG CACAGAGCAT AGCAGCAGG GTTGATGGTG CTGTTGACGT ACAGAGCCA GTAGCCAATG GACCACACCG GGTGAGGAT CAGAGTGTG CAGAAGGTGT TCACCAGGAC CATGACGTTG TAGGCGTCC CGGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTG TGGCACTTG CGTCCCGGG CCGCATCTG CCGCTCTTG CGCACCTGG TGCGAGCGAT GCTAGCGAAC TTGCGGGCCA CGTTGGCGC AGCGCATGC CAGNCGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGGCTCG TCAAAATTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACTTG CGGGCATGAA TCCAGGCGCTT ACTCTANAGG ATCCCCCCT CTCC	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	atggccaact tcacactgt caatggcagc tcgggcaatc agtccgtgag cctgggtcacg A tcatcatccc acaatcgcta tgagacgtg gaaatggtct tcattggccac agtgacaggc tccctgagcc tgggtgactgt cgtgggcaac atcctggtga tgctgtccat caagggtcaac aggcagctgc agacagtcaa caactactc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgctt tctccatgaa cctctacacc gtgtacatca tcaagggcta ctggccccctg ggcgccgtgg tctggacct gtggctggcc ctggactacg tggtagcaaa cgcctccgtc atgaaccttc tcatcatcag ctttgaccgc tactcttgg taccacagcc tctcacctac ctgccccggc gcacaccaa gatggcaggc ctcatgatg ctgctgacct ggtactgtcc ttcgtgtctt gggcgctgc catctgttc tggcagtttg tggtaggtgaa gcggacgggtg cccgacaacc actgcttcat ccagttcctg tccaaacccag cagtgaacct tggcacagcc attgtgctt tctacctgcc tgtggtcatc atgacggtgc tgtacatcca catctccctg gccagtgcga gccagtgcca caagcacccg cccgagggcc cgaaggagaa gaaagccaaag acgctggcct tccctcaagag cccactaatg aagcagagcg tcaagaagcc ccgccccgga ggcgccccgg gaggaactgc caatggcaag ctggaggagg cccccccg ccgctgcca	Homo sapiens

Homo
sapiens

193 3226 Muscarinic NP_000732.1 MANFTPVNGS SGNQSVRLVT SSSHRYETV EMVFATVTG SLSLVTVVG N ILVMSIKVN P

acetylcholin
e Receptor
M4

ccgccaccgc gccccgtggc tgataaggac acttccaatg agtcagctc aggcagtgcc
 acccagaaca ccaaggaacg ccagccaca gagctgtcca ccacagaggc caccactccc
 gccatgcccg cccctccct gcagcccg gcctccacc cagctccag atggtccaaag
 atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgcct
 gccacgcccg ctggcatgcg cctgcggcc aagctggccc cgaagtctgc cagcatcgct
 cgaaccaggg tgcgcaagaa gcggcagatg gcggcccggg agcgcaaaagt gacagaaag
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 gtgaacacct tctgccagag ctgcatccct gacacggtgt ggtccattgg ctactggctc
 tgctacgtca acagcacct caacctgccc tgctatgctc tgtgcaacgc cactttaaa
 aagacctcc gccacctgct gctgtgccag tatcggaaca tggcactgc cagtag
 agacacctcc gccacctgct gctgtgccag tatcggaaca tggcactgc cagtag
 RQLQTVNNYF LFSIACADLI IGAFSMNLYT VYIKGYWPL GAVVCDLWLA LDYVVSNASV
 MNLLISFDR YFCVTKPLTY PARTTKMAG LMIAAAWVLS FVLWAPAILF WQFVVGKRTV
 PDNHCIFIQL SNPAVTFGTA IAAFYLPVVI MTLVYIHISL ASRSRVHKHR PEGPKKKAK
 TLAFKSPLM KQSVKKPRPG GRPGGLRNGK LEEAPPALP PPRRPVADKD TSNESSGSA
 TQNTKERPAT ELSTTEATTP AMPAPPLQPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP
 ATPAGMRPAA NVARKEASIA RNQVRKKRQM AARERKVRT IFAILLAFIL TWTPYNNMVL
 VNTFCQSCIP DTWISIGYWL CYVNSTINPA CYALCNATEK KTFRHLLLCQ YRNIGTAR
 atggaagggg attcttacc caatgcaacc accgtcaatg gcaccacgt aatcacacag A
 cctttggaac gccacaggtt gtgggaagtc atcacattg cagctgtgac tgcgtgtgta
 agcttgatca ccatgtggg caatgtcttg gtcattgctt ccttcaaat caacagccag
 ctcaagacag ttaacaacta ttacctgctc agcttagcct gtgcagatct catcattgga
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 ctggcttgg acccttggct tgcactggac tacgtggcca gcaacgttc tgcattgaac
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 aagcgtactc cgaagaaggc tggcatcatg attggcttgg cctggctgat ctccttcac
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 gatgagtgc agatccagtt tctctgtgag cccaccatca ctttggcac tgcattgct
 gccttctaca tccctgttcc tgtcatgacc atcctctact gtcgaatcta ccgggaaaca
 gagaagcgaa ccaaggacct ggctgacctc cagggttctg actctgtgac caaagctgag
 aagagaagc cagctcatag ggctctgttc agatcctgct tgcgtgtcc tgcaccacc
 ctggcccagc gggaaggaa ccaggcctcc tggctcatct cccgcaggag cactccacc
 actgggaagc catcccaagc cactggcca agcgccaatt gggccaaagc tgagcagctc
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 ctccaagtgg tctacaagag tcagggttaag gaaagccag gggaagaatt cagtgtgta
 gagactgagg aaacttttgt gaaagctgaa actgaaaaaa gtgactatga caccctaaac
 taccttctgt ctccagcagc tgcctataga cccaaggtc agaaatgtgt ggcctataag
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 aaaatcatgc cctgcccctt cccagtggcc aaggaacctt caacgaaagg cctcaatccc
 aacccagccc atcaaatgac caaacgaaag agagtgttcc tagtcaaaag gaggaagca
 gccagacac tgagtgcct tctcctggcc ttcattcata catggacccc gtataacatc

Homo
sapiens

194 3227 Muscarinic NM_012125 MANFTPVNGS SGNQSVRLVT SSSHRYETV EMVFATVTG SLSLVTVVG N ILVMSIKVN P

Acetylcholin
e Receptor
M5

195	3227	Muscarinic Acetylcholin e Receptor M5	NP_036257.1	atggtcctgg tttctacctt ctgtgacaag tgtgtccag tcacctgtg gcaattgggc tattggtgt gctatgtcaa tagcactgtc aacctatct gctatgacct ctgcaacaga accttcagga agacctttaa gatgtgctt ctctgcatg ggaataagaa aaaagtggaa gagaagtgt actgacagg gaacagcaag ctaccctga MEGSHYNAT TVNGFPVNHQ PLEHRIMEV ITIAAVTAV SLITIVGNVL VMISFKVNSQ P LKTNNYLL SLACDLIIIG IFSNNLYTY IIMRWALGS LACDLWLALD YVASNASVMN LLVISFDYF SITRPLTYRA KRTPKRAGIM IGLAWLISFI LWAPAILCWQ YLVGKRTVPL DECOIQFLSE PTFITGTAIA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRAIF RSLRCRPT LAQRERQAS WSSRRSTST TKGPSQATGP SANWAKAEOL TTSSYPSE DEDKPADPV LQVVKSQGK ESPGEESAE ETEETFVKA TEKSDYDTPN YLLSPAAHR PKSQCVAK FRLVVKADGN QETNNGCHKV KIMPCFPVA KEPSTKGLNP NP SHOMTKRK RVVLKERKA AQTLSAILLA FIITWTPYNI MVLVSTFCDK CVPVTLWHLG YWLCVNSTV NPICVLCNR TFRKTFMML LCRWKKKVE EKLWQGNK LP ctattgcagt atctttcagc ttccagctt atctgaagac cccggacca aagtgaccag A gagccagaga agaactcag agaggtctg tcttgggctg cccgtgggtg agtggaggg tccggactg cagaccgtg gcgatggca ctctccagc agcagaaac tggatagacg gggtggagg cgtgggtgca gacgcgtga acctgaccg ctgctagt gccggggcg ccacggggc agttgagact gggtgctgc aactgctga ccaagctggc aacctctct cctcccttc cgcgtggga ctgctgtgg cttcccccgc gccctccag cctggggcca acctcaccaa ccagttcgtg cagccgtctt ggcgcctgc gctctggctc ctggcgtatg gtgtgggtg ggcagtggca gtttgggaa atctcatcgt catctggatc atctggccc acaagcgcat gagactgtc accaaactact tcttggtaa cctggcttc tccgacgct ccatggccgc ctcaacacg ttgtcaatt tcatctacg gcttcatgc gagtgtgtact ttggcgcaa ctactgcgc ttccagaact tcttctcat cacagctgtg ttcgacagca tctactccat gacggccatt gcgtggaca ggtatatggc tattattgat ccttgaac ccagactgtc tgctacagca accaagattg tcattggaag tattggatt ctgacttct tacttgcctt cctcagtggt ctttatcca aaacaaagt catgccaggc cgtactctct gcttgtgca atggccagaa ggtcccaac acattttcac ttaccatatt atcgtcata tactgtgta ctgtttcca ttgctcatca tgggtattac atacaccatt gttggaatta ctctctgggg agagaatac ccaggagata cctgtgaca gtatcatgag cagctaaagg ccaaagaaa ggtgtcaaa atgatgatta ttgtgtcat gacatttgc atctgctggc tgccctatca tatttacttc attctcactg caatctatca caactaaat agatggaat acatccagca ggtctactg gtagctttt ggctggcaat gagctcaacc atgtacaatc ccatcatcta ctgtgtctg aataaaagat ttcgagctg cttcaagaga gcatttgcct ggttctctt catcaagtt tccagctatg atgagctaga gctcaagacc accaggtttc atccaaaccg gcaagcagt atgtacaccg tgacagaga gtagtccatg acagtctgt ttgaccccaa cgtgcagac accaccagt ccagtcggaa gaaagagca acgcaagag accaaagttt caatggctgc tctgcagga attccaaatc tgcctccgc acttcaagtt tcataagctc acctatacc tctgtggatg aatatctta attccattc ctgaggtaaa agattagtgt gagaccatca tgggtgccagt ctaggacccc attctctat ttatcagtc tgtcctatat acctctaga aacagaaagc aatttttag cagctatggt caaattgaga	Homo sapiens
196	3378	Tachykinin Receptor 3	NM_001059	atggtcctgg tttctacctt ctgtgacaag tgtgtccag tcacctgtg gcaattgggc tattggtgt gctatgtcaa tagcactgtc aacctatct gctatgacct ctgcaacaga accttcagga agacctttaa gatgtgctt ctctgcatg ggaataagaa aaaagtggaa gagaagtgt actgacagg gaacagcaag ctaccctga MEGSHYNAT TVNGFPVNHQ PLEHRIMEV ITIAAVTAV SLITIVGNVL VMISFKVNSQ P LKTNNYLL SLACDLIIIG IFSNNLYTY IIMRWALGS LACDLWLALD YVASNASVMN LLVISFDYF SITRPLTYRA KRTPKRAGIM IGLAWLISFI LWAPAILCWQ YLVGKRTVPL DECOIQFLSE PTFITGTAIA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRAIF RSLRCRPT LAQRERQAS WSSRRSTST TKGPSQATGP SANWAKAEOL TTSSYPSE DEDKPADPV LQVVKSQGK ESPGEESAE ETEETFVKA TEKSDYDTPN YLLSPAAHR PKSQCVAK FRLVVKADGN QETNNGCHKV KIMPCFPVA KEPSTKGLNP NP SHOMTKRK RVVLKERKA AQTLSAILLA FIITWTPYNI MVLVSTFCDK CVPVTLWHLG YWLCVNSTV NPICVLCNR TFRKTFMML LCRWKKKVE EKLWQGNK LP ctattgcagt atctttcagc ttccagctt atctgaagac cccggacca aagtgaccag A gagccagaga agaactcag agaggtctg tcttgggctg cccgtgggtg agtggaggg tccggactg cagaccgtg gcgatggca ctctccagc agcagaaac tggatagacg gggtggagg cgtgggtgca gacgcgtga acctgaccg ctgctagt gccggggcg ccacggggc agttgagact gggtgctgc aactgctga ccaagctggc aacctctct cctcccttc cgcgtggga ctgctgtgg cttcccccgc gccctccag cctggggcca acctcaccaa ccagttcgtg cagccgtctt ggcgcctgc gctctggctc ctggcgtatg gtgtgggtg ggcagtggca gtttgggaa atctcatcgt catctggatc atctggccc acaagcgcat gagactgtc accaaactact tcttggtaa cctggcttc tccgacgct ccatggccgc ctcaacacg ttgtcaatt tcatctacg gcttcatgc gagtgtgtact ttggcgcaa ctactgcgc ttccagaact tcttctcat cacagctgtg ttcgacagca tctactccat gacggccatt gcgtggaca ggtatatggc tattattgat ccttgaac ccagactgtc tgctacagca accaagattg tcattggaag tattggatt ctgacttct tacttgcctt cctcagtggt ctttatcca aaacaaagt catgccaggc cgtactctct gcttgtgca atggccagaa ggtcccaac acattttcac ttaccatatt atcgtcata tactgtgta ctgtttcca ttgctcatca tgggtattac atacaccatt gttggaatta ctctctgggg agagaatac ccaggagata cctgtgaca gtatcatgag cagctaaagg ccaaagaaa ggtgtcaaa atgatgatta ttgtgtcat gacatttgc atctgctggc tgccctatca tatttacttc attctcactg caatctatca caactaaat agatggaat acatccagca ggtctactg gtagctttt ggctggcaat gagctcaacc atgtacaatc ccatcatcta ctgtgtctg aataaaagat ttcgagctg cttcaagaga gcatttgcct ggttctctt catcaagtt tccagctatg atgagctaga gctcaagacc accaggtttc atccaaaccg gcaagcagt atgtacaccg tgacagaga gtagtccatg acagtctgt ttgaccccaa cgtgcagac accaccagt ccagtcggaa gaaagagca acgcaagag accaaagttt caatggctgc tctgcagga attccaaatc tgcctccgc acttcaagtt tcataagctc acctatacc tctgtggatg aatatctta attccattc ctgaggtaaa agattagtgt gagaccatca tgggtgccagt ctaggacccc attctctat ttatcagtc tgtcctatat acctctaga aacagaaagc aatttttag cagctatggt caaattgaga	Homo sapiens

197	3378	Tachykinin Receptor 3	NP_001050.1	aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa atgggcttta aattt PVASPAAPSQP WANLTNQFVQ PSWRIALWLSL AYGVVAVAV LGNLIWII LAHKRMRTVT NYFLVNLAFS DASMAAFNTL VNFYALHSE WYFGANPCRF QNFPTITAVF ASIYSMTAIA VDRYMAIIDP LKPELSATAT KIVIGSIWIL AFLANFPQL YSKTKVMPGR TLCFVQWPEG PKQHFTYHII VIIIVYCFPL LIMGITYTIV GITLWGEIP GDTCDKYHEQ LKAKRKVVKM MIIVMTFAI CWLPYHIYFI LTAIYQQLNR WKYIQVYLA SFWLAMSSTM YNPIIYCCLN KRFRAFGRRA FRWCPFIKVS SYDELELKT RFHPNQSSM YTVTRMESMT VVFDPNDA DT TRSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISPYTS VDEYS	Homo sapiens
198	3380	Neuromedin B Receptor	NM_002511	gtgctgtgag gcttgccgc ggacagtaaa cttgcagggg cgagagggag ggacatcgat A taaacctaaa tegtgggcgt ttagtctca gggcaccgag cgcgtgaaaa ctccagcga ctctgtgga aaggagatca tgcctctaa gtctcttcc aacctctgg tgaccaccgg cggaatgag agcggttccg ttcccgagg gtgggaagg gattctctgc cgccctcgga cgggaccacc acggagtgg tgatccgctg tggatcccg tccctctacc tgctcatcat cacctgggc ttgctggga acatcatgct ggtgaagatc ttcatacca acagcgccat gaggagcgtc ccaacatct tcatctctaa cctggggcc ggggacttgc tgctgctgt cacctgcgtc cgggtggacg cctcgcgta cttcttcgac gagggtatgt ttggcaaggt gggtgcaaa ctgataccctg tcatccagct cactccgtg ggggttccg tgttcaactc cactgcccctc agcgcgcaga ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcatgg ctgcgacct gtgtgaaggc catgggtatc tgggtggtct ccgtgttgc ggcagttccc gaagcgtgt ttctgaagt ggctcgatc agtagctgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaga ttcattcagt gctcatttct ttggtctatt tctctatcc acttgctatt attagcattt attattatca tattgcaaa accttaatta aaagcgaca caatcttct ggagaataca atgaacatac caaaaacag atggaacac ggaacgcct ggctaaaatt gtgcttgtct ttgtgggctg tttcatcttc tgttggtttc caaacacat cctttacatg tatcgtgtct tcaactataa tgagattgat ccactctag gccacatgat tgtcacctta gttgcccggg ttctcagttt tggaattct tgtgtcaacc catttgctct ttacctactc agtgaaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtcctataa gagagaggaa ccagctacct actcagctct tcagcgtgc gtatgacatc tctgaaaagc aatgctaaga acatggtgac caattctgtt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctactggag agaacttagt aa attcaactca ctactggag agaacttagt aa	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	MPKSLSLNLS VTTGANESGS VPEGWERDL PASDGTTEL VIRCVPISLY LLIITVGLLG P NIMLVKIFIT NSAMRSPNI FISNLAAGDL LLLTLCVPVD ASRYFFDEWM FGKVGCKLIP VIQTSVGVVS VFTLTALSAD RYRAIVNPMQ MOTSGALIRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSTACIP YPQDELHPK IHSVLFLVY FLIPLAIISI YYHIAKTLI KSAHNPGEY NEHTKKQMET RKRLAKIVLV FVGCFFCFWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLISES FRRHENSQLC CGRKSQERG TSYLLSSAV RMTSLKSNK NMVTNSVLLN GHSMKQENAM	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	Homo sapiens
tatcctatcc	ctatcctagc	ttttaacctg	agccagagct cactacacag gttcttggct A
atcgagtctg	aattgcact	actcaactta	taaactgtct gcagacacct gttagggaata
ttgtgtatca	tgggcgccag	gatctgaact	cgctttacct tcttgttttg agcacaggga
ccgcccagct	agaggagcac	cagcgcactg	cgccccagcc ctggcgaggg gtgcggagga
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ccccgccttt	gcctctgctt	tttccgggg	cggatttggg gaagtccggc tcaagtccag
gagggtctgtc	ttcgccgggc	cagctctcgc	ggaactgggg ggtagagagc aaaggagagag
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cagcgggttg	atgccattca	ctctgaggtg	tccgtgacat tcaagggttaa aaagaacctg
gaggtcagaa	agaacagtgg	ccccaatgac	tctttcacag aggtaccata tgtctaagga
agctgtgggtg	tgaaaaatgta	tggatgaatt	ctgaccacag ctatgaatct ggtgatggc

201	3404	Neuropeptide NP_000901.1 Y Receptor Type 2	<p> ggctcacaag tgaaaactga ttcccatatt taagaagaa gtggatctaa atggaagcat ctgtgttta attctggaa aactggctgg gcagagcctg tgtgaaata ctggaattca agataaaggc acaaaatgg ttacttaac agttgggtgg gtatagggtt gcattatgag taaaagcaga gagaagtact ttgtattatt ttctctggagt gaagaaaact tgaacaagaa attggtatta tcaagcatt gctgagagac ggtgggaaaa taagttgact ttcaaatcac gttaggacct gattgagga ggtgtgcagt tgcgtgctcc ctgcttggtt tatgaaaca ccactgaaca gaaatttctc caggagcca caggtctctc ttcatcgcat ttgtattttt ttgttcattc tctagacaaa atccatcagg gaatgtgca ggaacgatt gccaaactata cgaatggctt cgaggagata aactgaaatt tgctatataa ttaattttt ggcagatgat aggggaactc ctcaacactc agtgggcca tttgtcttaa aaccaattgc acgtttgggtg aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaac atcatttaatt ttctaatttc aagttacatc cgctttatgg agatactatt tagataacaa gaatacaact tgatactttt attgttatac ctttttgaac atgtatgatt tctgttgtta ttaccctttt taacagata aatattttt ttctatttta gattagcgga atctaattctt aatctaactt tttaggagta tatttcagag aaattccaag cacaccagta tgaccatcct tatttcagaa atgacaatgc atagagaaa agtaatatgt gcaagcctc cgaagagat ggttaagtaa agacttaggt taccagtatc aggtttcgt ttttgtatgt aggtagctct actgcctcct cttaaaacca acaaaagaaa gagagactgg ctgcaaaact ttagaagaa tggcttcgaa tagggttctt gggaggaaat ccgaggaaat agacgtctgt gctctgtga tgtctccac tatctgttt tgctctacc cactaatcca cctcgggagg ctctgggcat tagcggaagg cttcaaccaca aggagacagg agcgaattt ccataggcat gcgtctctag tggcacgagt ggcttgggtc aggatcaaa agtgaagat tcggaagtca gctatctgga gagagagaga gattgtgtt tattcgtgtc ccatagttt cctatcctat cctatccta gcttttaacc tgagccagag ctcactacac aggttctctg ctatcgagtc tgaatctgca ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catgggcggc aggatctgaa ctgcgtttac cttctgtttt ggagcacagg gaccgcccag cttagaggagc accagcgcac tgcgccccag ccttgggcca ggtgagcgag gatttgttct cgttgcaatc ctgtggcgc ttttccgggg ttctgcgggg atccagctcc ccatctctgc tctacacac acaaaagaaa acaactctcg attggaagt gtggaattt ctcagcccc acgaggcgcg gggattctcc agccccggcc ctctccgc cagcctgagg tctccttgc tcgctgctt tgctagggac cgcagtcctt cagccgcagc tgggtctgtc cgccccgcct ttgccccgc ctttcccg ggcggatttg gtgaagtcgg cctcaagtc aggaggtctg tcttcgcggg gccagctctc </p>	<p> Homo sapiens </p>
201	3404	Neuropeptide NP_000901.1 Y Receptor Type 2	<p> ILLGVGNLSL VIHVKFKS MRTVTNFFIA NLAVADLLVN TLCLPFTLY TLMGEWMGP VLCHLVPAQ GLAVQSTIT LTVIALDRHR CIVYHLESKI SKRISFLIG LAWGISALIA SPLAIFREYS LIEIIPDFEI VACTERWPGE EKSIVGTYS LSSLLILXVL PLGIISFSYT RIWSKLKNHV SPGAANDHYH QRRQTKML VCVVVEAVS WLPLHAFOLA VDIDSQVLDL KEYKLIFTVF HIAMCSTFA NPLLYGMNS NYRKAFLSAF RCEQRLDAIH SEVSVTFRAK KNLEVRKNSG PNDSFTEATN V </p>	<p> Homo sapiens </p>

202	3405	Neuropeptide NM_005972 Y Receptor Type 4	atgaacaccc ctacccctcct ggcccttgctg ctcccaaaat ctccacaagg tgaataacaga A agcaaacccc tgggcacccc atacaacttc tctgaacatt gccagattc cgtggacgtg atggtcttca tegtacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgccatgagt gtgtgactgt gagcagaag gaaaaagcca acgtgacca cctgcttacc gccaacctgg ccttctctga cttctctcatg tgcctcctct gccagccgt gaccgcgtc tacaccatca tggactactg gatcttggga gagactcctt gaaagatgtc ggccttcac cagtgcagt cggtagcgggt ctccatcctc tgcctgtcc tgcgtggcct ggagaggcat cagtcacatc tcaacccaac aggtcgaag cccagcactc cacaggccta cctggggatt gtgtcatct gggtcattgc ctgtgtcctc tccctgacct tccctggcaa cagcactcctg gagaatgtct tccacaagaa ccaactcaag gctctggagt tccctggcaga taagggtgtc tgtaccaggt cctggccact ggctcaccac cgcacactct acacacctt cctgtcctc ttccagttact gctcccaact gggcttctc ctggtctgtt atgcacgcat ctaccggcg ctgcagaggc agggggcgt gtttcacaag ggcactaca gcttggagc tgggcacatg aagcaggtca atgtgtgct ggtgtgatg gtgtgtgctt tgcctgtgct ctggtgctc ctgcattgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgccacggg aacctcatct tcttagtgt ccactgtct gccatggcct ccacctgct caacctatc atctatggct ttctcaacac caactcaag aaggagatca aggcctggt gctgactgtc cagcagagcg cccctcgtga ggagtcggag catctgcccc tgtccacagt acatacggaa gtctccaaag ggtccctgag gctaagtggc aggtccaatc ccatctaa 1 MNTSHLLALL LPKSPQENR SKPLGPNF SEHCQSDVDV MVFIVTSYI ETVGVGLGNL P 203 3405 Neuropeptide NP_005963.1 Y Receptor Type 4 CLMCVTVRQK EKANVTNLLI ANLAFSDFLM SLISQATLAV YTIMDWFIFG ETLCKMSAFI QCMSTVTSIL SLVVALERH QLIINFTGK PSISQATLGI LIWVIACVL SLPFLANSIL ENVEHKNHSHK ALEFLADKW CTESWPLAH RTIYTFLLL FQYCLPLGFI LVCYARIYRR LQROGRVFKH GTYSLRAGHM KQNVVVLVVM VVAFVLMWLP LHVFNLSLEDM HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLTC QQAPLEESE HLPSTVHTE VSKGSLRLSG RSNPI	Homo sapiens
204	3406	Neuropeptide NM_006174 Y Receptor Type 5	gaaaggctat cggtaacaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga atcttgattt ccagctctgg gatgactata aaagcagtgt agatgactta cagtattttc tgattggct ctatacattt gtaagtcttc ttggcctttat ggggaatcta cttattttta tggctctcat gaaaaagct aatcagaaga ctacgggtaaa cttctcata ggaactctgg cctttctga tatcttggtt gtgctgtttt gctcacctt cacactgacg tctgtcttgc tggatcagtg gatgttggc aaagtcatgt gccatattat gcctttctt caatgtgtt cagttttgt ttcaactta attttaatat caattggccat tgtcagggtat catatgataa aacatcccat atctaataa ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttgtgccatc ttgtctccc ttccagtgtt tcacagtctt gtggaacttc aagaaacatt tggttcagca ttgctgagca gcaggattt atgtgttgag tcatggccat ctgattcata cagaatgcc ttactatct cttattgtt agttcagtat atctgtccct tagtttgtct tactgtagt catacaagtg tctgcagag tataagctgt ggattgtcca acaaaagaaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtggcc tcaggtgaaa ctctctggca gccataaatg	Homo sapiens

205 3406 Neuropeptide NP_006165.1
Y Receptor
Type 5 Homo sapiens

gagttattca ttcataaaa aacacagaag aagatatagc aagaagacag catgtgtgtt
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tatttcaaat aggcatttca agttggtgta ttgcatgtgt cattgtttgg gcatgatgtc
ctgtgtgtctt aatccaattc tatatgggtt tcttaataat gggattaaag ctgatttagt
gtcccttata cactgtcttc atatgtaata attctcactg ttt
LIMALMKKR NQKTVNFI GNLAFSIDL VLFCSPTTIT SVLLDQWMEG KVMCHIMPFL
QCVSVLVSTL ILISIAIVRY HMIKHPISNN LTANHGYFLI ATVWTLGFAL CSPLPVFHSI
VELQETFGSA LLSSRYLCVE SWPSDSYRIA FTISLLIVQY ILPLVCITVS HTSVCRSISC
GLSNKENRLE ENEMINLTILH PSKKSQPQVK LSGSHKWSYS FIKKHRRYS KKTACVLDPAP
ERPSQENHSR ILPENFGSVR SOLSSSSKFI PGVPTCFEIK PEENSVDHEL RVKRSVTRIK
KRSRSVFYRL TILILVFAVS WMLHLFHV TDENDNLISN RHFKLVYCIC HLLGMSCCL
NPILYGFLLN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531
Receptor
Type 1 Homo sapiens

tcaagctcgc ccgcgcagc cgaagccggg ctggcgctg tctcggggg cctggggaac A
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tcacacatca acccctcct gtacaacctc gtctctgcca acttcgcca catcttctcg
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ctaagagaag acagtccag gagaagctgg ccgggaccag ccaggagctg ggagccacag
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207	3408	Neurotensin Receptor Type 1	NP_002522.1	cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg ccctgcgtgc catgagtcgc togtgtcatgg agtcggagcg cctgagccgg gcccttggtg acggcacagc cctcacagct caaacgcccc ccccaactcc caccatctgc aggtggtgaa aacaaccccc gtgtatctct caataaaggt ggccgaaggg cctcgatgtg YKRLSSAPGT GTPPAADPFQ RAQGLEAL LAPGQNAGS NASERVLAAP SDELLTLLAM PVELYNFIWV HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM SRRTKKFIS AIWLASALLT VPMFTMGEQ NRSADQHGAG GLVCTPTIHT ATVKVVIQVN TFMSFIFPMV VISVLNTIIA NKLTVMVRQA AEQGVCTVG GEHSTFMAI EPGRVQALRH GVRVLRVAVI AFVVCWLPYH VRRIMFCYIS DEQWTFPLYD FYHYFYMTN ALFYVVSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETLV cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cactgtggtc A ccagctccca agaggtgtgc agaagtlaccg tacagagtgg atttgacagg cagtggcatg gagccccctc tccccgcgc gttctgggag gttatctacg gcagccacct tcagggcaac ctgtccctcc tgagccccc aaacagctcg ctgccccgc atctgctgct caatgccagc cacggcgctc tctgccccct cgggctcaag gtcacacatg tggggctcta cctggccgtg tgtgtcggag ggtcctctgg gaaactgcctt gtcattgacg tcactctcag gcacacaaa atgaagacag ccaccaatat ttacatcttt aacctgccc tggcccgacac tctgggtcctg ctgacgtgc cctccaggc caggacatc ctcctgggtc tctggccgtt tgggaatgctg ctgtgcaaga cagtcatgct cattgactac taacacatgt tcaccagcac cttcacctc actgccaatga gtgtggatcg ctatgtagcc atctgccacc ccatcctgct cctcgacgtc cgacgtcca gcaagaccca ggctgtcaat gtggccatct gggccctggc cctgtgttc ggtgttcccc ttgccatcat gggctcggca caggtcgagg atgaagagat cgaagtgcctg gtggagatcc ctacccctca ggattactgg ggcctggtgt ttgccatctg catcttctc ttctcttca tctgtccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctcgtggag tccgctgct ctcgggtctc cgagagaagg accggaacct gcggcgcatc actcggctgg tctgtgtggt agtggctgtg ttctgtggtt cgtggacgcc tgtccaggtc ttcgtgctgg cccaagggtc gggggttcag ccgagcagcg agactgccgt ggcattctg cgcttctgca cggccctggg ctacgtcaac agctgcctca accccatctc ctacgcctc ctggatgaga acttcaaggc ctgcttccgc agttctgct gtgcatctgc cctgcccgg gacgtgcagg tgtctgaccg cgtgcagc attgccaagg acgtggccct gccctgcaag acctctgaga cggtaaccgc gcccgcata ctaggcgtgg acctgccat ggtgcctgtc agcccgaga gcccatctac gcccacaca gagtcacac aggtcacctg tctctaggcg gacacacctc gggccctgag catccagagc ctgggatggg cttttccctg tgggccaggg atgctcgtgc ccagaggag acctagtac atcatgggac aggtcaaaagc attagggcca cctccatgac ccagagaga ctaaaagctc cctcctggtc cagggccag gggacacaa gacctacctg gaagcagctg acatgctggt ggacggccgt tactggagcc cgtgcccc cctccccgtg cttcatgtga ccttggcct ctctgctgt cgttggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcatcct gtgccccca tgtgtgtgt gctgtttgca tggcagggtc ccagctgctc tcagccctgt cagctctcct cagggcagct ggacaggctt ggacacggcc gggaagtga gcaggcagct tttctttggg tggggacttg	Homo sapiens
208	3452	Opiate Receptor- Like 1 (OPRL1)	NM_000913	cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg ccctgcgtgc catgagtcgc togtgtcatgg agtcggagcg cctgagccgg gcccttggtg acggcacagc cctcacagct caaacgcccc ccccaactcc caccatctgc aggtggtgaa aacaaccccc gtgtatctct caataaaggt ggccgaaggg cctcgatgtg YKRLSSAPGT GTPPAADPFQ RAQGLEAL LAPGQNAGS NASERVLAAP SDELLTLLAM PVELYNFIWV HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM SRRTKKFIS AIWLASALLT VPMFTMGEQ NRSADQHGAG GLVCTPTIHT ATVKVVIQVN TFMSFIFPMV VISVLNTIIA NKLTVMVRQA AEQGVCTVG GEHSTFMAI EPGRVQALRH GVRVLRVAVI AFVVCWLPYH VRRIMFCYIS DEQWTFPLYD FYHYFYMTN ALFYVVSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETLV cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cactgtggtc A ccagctccca agaggtgtgc agaagtlaccg tacagagtgg atttgacagg cagtggcatg gagccccctc tccccgcgc gttctgggag gttatctacg gcagccacct tcagggcaac ctgtccctcc tgagccccc aaacagctcg ctgccccgc atctgctgct caatgccagc cacggcgctc tctgccccct cgggctcaag gtcacacatg tggggctcta cctggccgtg tgtgtcggag ggtcctctgg gaaactgcctt gtcattgacg tcactctcag gcacacaaa atgaagacag ccaccaatat ttacatcttt aacctgccc tggcccgacac tctgggtcctg ctgacgtgc cctccaggc caggacatc ctcctgggtc tctggccgtt tgggaatgctg ctgtgcaaga cagtcatgct cattgactac taacacatgt tcaccagcac cttcacctc actgccaatga gtgtggatcg ctatgtagcc atctgccacc ccatcctgct cctcgacgtc cgacgtcca gcaagaccca ggctgtcaat gtggccatct gggccctggc cctgtgttc ggtgttcccc ttgccatcat gggctcggca caggtcgagg atgaagagat cgaagtgcctg gtggagatcc ctacccctca ggattactgg ggcctggtgt ttgccatctg catcttctc ttctcttca tctgtccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctcgtggag tccgctgct ctcgggtctc cgagagaagg accggaacct gcggcgcatc actcggctgg tctgtgtggt agtggctgtg ttctgtggtt cgtggacgcc tgtccaggtc ttcgtgctgg cccaagggtc gggggttcag ccgagcagcg agactgccgt ggcattctg cgcttctgca cggccctggg ctacgtcaac agctgcctca accccatctc ctacgcctc ctggatgaga acttcaaggc ctgcttccgc agttctgct gtgcatctgc cctgcccgg gacgtgcagg tgtctgaccg cgtgcagc attgccaagg acgtggccct gccctgcaag acctctgaga cggtaaccgc gcccgcata ctaggcgtgg acctgccat ggtgcctgtc agcccgaga gcccatctac gcccacaca gagtcacac aggtcacctg tctctaggcg gacacacctc gggccctgag catccagagc ctgggatggg cttttccctg tgggccaggg atgctcgtgc ccagaggag acctagtac atcatgggac aggtcaaaagc attagggcca cctccatgac ccagagaga ctaaaagctc cctcctggtc cagggccag gggacacaa gacctacctg gaagcagctg acatgctggt ggacggccgt tactggagcc cgtgcccc cctccccgtg cttcatgtga ccttggcct ctctgctgt cgttggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcatcct gtgccccca tgtgtgtgt gctgtttgca tggcagggtc ccagctgctc tcagccctgt cagctctcct cagggcagct ggacaggctt ggacacggcc gggaagtga gcaggcagct tttctttggg tggggacttg	Homo sapiens

209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	<p>ccctgagctt ggagctgcca cctggaggac ttgctgttcc cgactccacc tgtgcagccg ggccacccc aggaagaagt gtccaggtgg gggctggcag tccctggctg cagaccccga gtcggccctc ggacgcacc tctgaaggtt ttctgtgtgc tgcacgtgac aggcctcatc cctgactgca gcttactct gggcccaacc cccatttccc ttcaggagac cagcgagagg cctggcccat cctccagcg gtgcaatgaa ctatatgttg tggaccgtca accagccct gcttctcagt gtggggcagg tgtctcagga cgaagcgcc cgctgaccac atgggcaagt ctgttcacaa agtggaggcc tcgttttctt ggtcttgact gctctgtttg ggtgggagaa gattctctgg gggteccac atctcccaa ggctccctc acagcctctc ctttcttga agccagaggt cagtggccgt gctgtgttgc ggggaagctg tgtggaagga gaagctgggtg gccacagcag agtctgtctc tggggacgcc tgcctcattt acaagctca agatggctct gtgtagggcc tgagcttgct gcccaacggg aggatggctt cacagcagag ccagcatgag gggtggggcc tggcagggt tgccttgagcc aaactgcaaa ggctgtgggt gctgtgagga cactgcgggg gttg</p>	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	<p>VCVGGILGNC LVMYVILRHT KMKTATNIYI FNALADTIV LLTLFPFGTD ILLGFWPFGN ALCKTVIAID YNMFSTFT LTAMSVDRYV AICHPIRALD VRTSSKAQAV NVAIWALASV VGVPVAIMGS AQVEDEIEC LVEIPTPDY WGPVEAICIF LFSFIVPVLV ISVCYSLMIR RLRGVRLLSG SREKDRNLRR ITRLVLVVA VFVGCWTPVQ VFVLAQGLGV QPSSETAVAI LRFCTALGYV NSCLNPILYA FLDENFKACF RKFCASALR RDVQVSDRVR SIAKDVALAC KTSETVPRPA</p>	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	<p>catggagacc tatgaagggg atgtgctggg ggtccagacc ccatactct cagactcaac aatcttgtt ctttagaact gtgttctcac cttccaaca ctgcactgcc gaagtgtagc ggccccaaa ccttgctctc atccacagct agagcttctt cccgaagggc ctttaggata ggagaaaggg ttcattgcaca cactgtgtgag aatggaagag cccctccag accactctac agctgctcta gcttagttg ccactaggaa gtttctgtga aagtaagtgt aagttccaca tccctgggga agtagttaaa taataatggt atgactg LALGLQLLP GRRPAGGSP ATSPASVRI LRAAACDIL GCLGMVIRST VWLGFNFVD SVSDNMHTEI WPAFCVCSA MWIQLYSAC FWLFCVAVD AYLVRRSAG LSTILLYHIM AWGLATLLCV EGAMLYPS VSRCEGLDH AIPHYVTMYL PLLLVVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFFKIM LVLIICWLSN IINESLLFYL EMQTDINGGS LKPVRTAAKT TWFIMGILNP AOGFLISLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPILMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EIHTASESCN KNEGDPALPT HGDIL</p>	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	<p>gaacagtgtt accttgagc ctacaatgag aggtatttca aatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acactgggc cactcaaga cgacaaacgc tcactgggca aaacacctc actgaaaaa gacctcatat tatgcaaaaa aaatcttaag agccctctgc cttcagaagt tacaagatga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaaacct ctgatactc agcagatcat tccgtgtgctg tactgtatgg tcttcattgc gggaatccta ctcaatggag tgtcaggatg gatattcttt tactgtccca gctctaagag ttctatcatc atctcaga acattgttat tgcgtacttt gtgatgacc tgacttttcc ttccaagatc cttggtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgag ggtctctgcc gtgctctct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctctttgg acttctttca tccagtcagt gattacagc aaacttctgt cagtatagt atggatgctc atgctcctcc ttgctgttcc aaatattatt ctaccaacc agagtgttag ggaggttaca caataaaaat gtatagaact gaaaagtga ctgggacgga agtggcaca agcatcaaac tacatcttcg tggccatctt ctggattgtg ttctctttgt taatcgtttt ctatactgct atcacaaaaga aaatctttaa gtcccacctt aagtcagtc ggaattccac ttcggtaaaa aagaaaatcta gccgcaacat attcagcatc gtgtttgtgt ttttgtctg tttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagtcatta cagctgccag tcaaaagaaa tcttgcggtg tatgaaagaa ttcaactcgc tactatctgc tgcaaatgta tgcttgacc ctattattta ttcttttcta tgccagccgt ttagggaat cttatgtaag aaattgcaca ttccattaaa agtcagaaat gacctagaca ttccagaat caaaagagga aatacaacac ttgaaagcac agatactttg tgagtctcta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaaatc aataagatat gtgccctcat cataaatatc atctctagca ctgccatcca attagttca ataaaattca aatataagtt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaattctc taatactgac ctttctatc tctattaata aaaaattaat acatacaatt attcaattct attatattaa aataagttaa agtttataac cactagtctg gtcagttaat gtgaaattt aaatagtaaa taaaacacaa cataatcaaa gaaaactcac tcaggcatct tcttctcta aataccagaa</p>	Homo sapiens

213	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	MINSTSTQPP	DESCQNLLI	TQIIPVLYC	MVFIAGILLN	GVSGWIFFYV	PSSKSFIYIL	P	Homo sapiens
					KNIVIADEFM	SLTFPFKILG	DSGLGPMQLN	VFVCRVSAVL	FYVNMVYSIV	FFGLISFDRY	
					YKIVKPLWTS	FIQSVSYSKL	LSVIVWMIML	LLAVPNILIT	NQSVREVTQI	KCIELKSELG	
					RKWHKASNYI	FVAIFWIVFL	LLIVFYTAIT	KKIFKSHLKS	SRNSTSVKKK	SSRNIFSIVE	
					VFFVCFVPYH	IARIPYTKSQ	TEAHYSCQSK	EILRYMKEFT	LLLSAANVCL	DPIIYFFLQ	
					PFREILCKKL	HIPLKQNDL	DISRIKRGNT	TLESTDTL			
214	3582	Oxytocin Receptor	NM_000916		tgntaaggct	ctgggaccaa	cgsrtaaggcga	acagatctcg	ctccggaggg	gtctgcgagg	A
					ctggcctcgc	ccggccctta	cgggaccctg	cgatagtagg	agcctcagcc	cgaggcacag	
					cgccgatcc	agacccgctc	cgccgcgcga	gcctggagg	cgctcctcgc	tcgctcctcg	
					taccatcca	gcgaccagcc	aggtctgcgc	gaggggattc	caaccaggcc	tccagtga	
					gacctcagct	tagcatcaca	ttaggtgcag	ccggcaggcc	atcccaactc	ggcccgagg	
					cgcaagcgtc	actggggccg	tcagtcgccc	tgcaacttcc	ccggggggag	tcaactttag	
					gttcgctcgc	ggactcggtg	cagtggagc	cgctgaacat	cccgagggaac	tggaacgctg	
					ggggctcttg	gcttgctggc	ggtagaggat	tcccgctcat	ttgcagtggc	tcagaggagg	
					gtggacccag	cagatccgct	cgtggagtct	ccaggagtgg	agccccgggc	gccccctaac	
					cttcgacac	gccggtatcc	gcccagccgc	gccaagcgt	aaagggtctg	aaggccggg	
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					gccaacgcca	gcgcgcgcgc	gccgggggccc	gagggcaacc	gcaccgccc	acccccggg	
					cgcaacgagg	ccctggcgccg	cgtggagggtg	gcggtgctgt	gtctcatcct	gctcctggcg	
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					ctctctctct	tcataagca	cctaagcatc	gccgacctgg	tggtggcagt	gtttcagggtg	
					ctgcgcgagt	tgctgtggga	catcaccttc	cgcttctacg	ggccccacct	gctgtgcgc	
					ctggtcaagt	acttgcaagt	ggtgggcatg	ttgcctcca	ctacactgct	gctgctcatg	
					tcctggacc	gctgctggc	catctgccag	ccgctggcgt	cgctgcgcg	ccgcacgcag	
					cgcttggcag	tgctgcccac	tggtgctggc	tgctggtgg	ccagcgccc	gcaggtgcac	
					atcttctctc	tgccgcgagt	ggctgagggc	gtcttctact	gtggggccgt	cttcatccag	
					ccctggggac	ccaaggccca	catcacatgg	atcacgctag	ctgtctacat	cgctgcggtc	

atcgtgctcg ctacctgcta cggccttata agcttaaga tctggcagaa tctggcgctc ctggcggtc
aagaccgtg cagcgcgcc ggcgagggc cagagggcg cggcggtcg cgtggggggg
cgctggccc tggcgctgt cagcagcgtc aagctcatct ccaaggccaa gatccgcacg
gtcaagatga ctttcatcat cgtgctggcc ttcatcgtgt gctggacgcc ttcttcttc
gtcagatgt ggagcgtctg ggatgccaac agcctcggc cttcatcatc
gtcatgctcc tggccagcct caacagctgc tgcacccctt ggatctacat cttgttcaag
ggccacctct tccacgaact cgtgcagcgc ttctgtgct gctccgcag ctacctgaag
ggcagacgcc tgggagagac gagtgcagc aaaaagca actcgtctc cttgtctcg
agccatcgca gctccagcca gaggagctgc tccagccat ccacggcgtg acccaccagc
cagggccagg gctgcagcct gaggtcagg ctgtgctggc ataagtgtc tgcctcagg
tgatggcgta tgtttgtgta taaggtaact atcagtttgt atccctccc tccctgggt
ggcttcagt ggttgagag tggcctccat gatggagat gataggagac tcagccatca
gacacaccc tggcctccta cagctacttc taccacttc acccactgc tgcctgggc
agtgaagtgc ttgtttttc tccctgactt gtaatttcac tccagtatat ttttacttct
tcattctggg atattgtga aagcggtaaa tataggattg gtgaccaatt ggttcaggaa
gtccagtgt ctggacttg ggtgaagcagt ggggtcggga cctcagatgg gaagggtggt
gctaagatcc tccagacctc aaagtgtatt tgcctttaag cgaacaaatg ctggggtcct
tggggaccag cttgtcagag ggtagccta agagaagggtt attacctgt aagaccatct
ggcgagtg accattaga acttgggtta aaaaagtta agaagctaat gtttaagag
catttggaa agaaaaagaa ataatgtat ccagataggga aaagaagaa taaaactatt
tgcatagac acagtttgt atatagaaa tccataaggaa ctcacacaca cacacacaca
cacacgcga cacagctatt agaaactaata agcaagtctc gcaagggttc agatacaag
atcaatatac aaaaatgaat tgtatttctt tatactagca acaacaata tgaacacgaa
gttaataaat tccattata ataccatcag aaagaataaa ataggaatca acttaacaaa
acaagtgcga gactgaaaac tacaaaattg gaaagaaatt aaagaaggct taaataaatg
gaagacatc ctgtgttcat ggatcagact tagtatgtt aagatggcaa tactatccta
actgacatgc agattcagtg caatccttat gaaaatcata gctggctttt ttacagaaat
tgataagcta gtcccaaat tcataagaa atgcaaggga ccagatatc caataaagcc
ttgaaaaaga acaagtgtg tggattcaca cttcctgatt tcataatta cgataaagg
aatcagctca gtgtgttact ggtttaagga tagacatacg gagcagaata aagagtacag
atatgaacac ttatacttac ggtcaattga tttttgcaa ggttcccaag acaattcaat
agagaaagga gagtctttc acaaaatggc accgagacaa tgatatgcaa gtgcaaaaga
atgaggttgg accttactc acactatgtg caaaaacaa ctcaaacgc atccaagatc
taataataag agctgaact ataaaactt agaaataaac ataggcatag atctttgtta
ccttgaatta ggcagtgtt tcttagatat gataccaag acacaagcaa ccaatggaaa
aatagtaaa ttggactta tcaagattg aagcttttgt gattgaaag accctatcaa
gaagtgaaa agataacctg cagaatggga gaaaattt gcgagtcata tatatgataa
ggggttgta tctggaatat ataaataact cttataaac acaataagg agaaaaataa
atcaatttaa aaaatgggt aacgggttga atagacatt ctccaaagaa gatatgcaaa
tggctactaa gcacatgaaa aatactcaac attattatc attaggga tgcaagtcaa
aatcaaatg agattccagt ttacaatcac taggatggtt acaataaaaa gatggacaag

215	3582	Oxytocin Receptor	NP_000907.1	MEGALANWS AEAANASAP PGAENRTAG PPRNEALAR VEVAVLCIL LLALSGNACV P LLALRTTRQK HSRLEFFMKH LSIADLVAV FQVLPQLLWD ITFRFYGPDL LCRLVKYIQV VGMFASTYLL LMSLDRLA ICQPLRLRR RTDRLAVLAT WLGLVASAP QVHIFSLREV ADGVFDCWAV FIQWGPCKAY ITWITLAVYI VPIVILATCY GLISFKIWQN LRLKTAATAAA AEAPEGAAAG DGRVALARV SSVKLISKAK IRTVKMTFII VLAFIGWTP FFFVQMWVW DANAPKEASA FIIVMLLASL NSCNPWIMY LFTGHLFHEL VQRFCCSAS YLKGRRLGET SASKSNSSS FVLSHRSSQ RSCSQPSTA	Homo sapiens
216	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NM_002564	cggcacgagg caccocgaga ggagagcgc agcgagtgag cgagaggagc cccttggtggc A agcagcacta cctgccaga aatgtctgg agcctggcg tgccccagg cctggggacc tggttttctt gttcccgca gatttccctg cagcccggtc caggtccagg cgtgtgcatt catgagttag gaaccgtgc agcgctgag catctctacc tggagagcag gggctggtea ggcgatggc agcagacctg ggcctctgga atgacacat caatggacc tggatgggg atgagctgg ctacaggtgc cgttcaacg aggaactcaa gtacgtgctg ctgctgtgt cctacggcgt ggtgtgctg cttgggctgt gtctgaacgc cgtggcgctc tacatcttct tgtgcgcct caagacctg aatgcgtcca ccacatatat gtccacctg gctgtgtctg atgcactgta tgcggcctcc ctgcccgtgc tggctctatta ctacgccgc ggcgaccact ggcccttcag cagggtgctc tgcaagctgg tgcgcttctt ctctacacc aacctttact gcagcatcct ctctctacc tgcacagcg tgcacccgtg tctgggcgtc ttacgacctc tgcgctccct cgctggggc cgggcccgct acgctcgccg ggtggccgg gccgtgtggg tgttgggtgt ggcctgccag gcccctgtgc tctacttctt caccaccag cgcgcgggg gcgcgtaac ctgccacgac acctcgac cagagctctt cagccgttc gtggcctaca gctcagtcct gctgggcctg ctcttcggg tgcctcttgc cgtcatcctt gtctgttacg tgtcctatgg tcggcgactg ctaaagccag ctacgggac ctccctaggg ctcctctagg cgaagcgcaa gtcggtgctg acctcgccg tgggtgtggc tgtcttcgcc ctctgcttc tgccattcca gtcacccgc acctctact acctcttcg ctgcgtggc ctcagctgcc acacctcaa cgccatcaac atggcctaca aggttaccg gccgtggcc agtgctaaca gttgcccttga cccgtgtct tacttcttgg ctgggacag gctcgtacg tttgcccag atgccaagcc acctatggc ccagccctg ccaccccgcc tcgcccagc ctgggacctg gcagatccga cagaactgac atgcagagga taggagatgt gttggggcagc agtgaggact tcaggcggac agagtccacg ccggctggta gcgagaacac taaggacatt cggctgtagg	Homo sapiens

217	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NP_002555.1	agcagaacac ttacagcctgt gcagggttat atgggaagc ttagaggac caggacttgt gcagacgcca cagtcctccc agatattggac catcagtgac tcatgtgga tgacccatg ctccgtcatt tgacaggggc tcaggatatt cactctgtgg tccagagtca actgttccca taacccttag tcatcggttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag agctcaaggt caatgacacc cctggcctga ctcceatgca agtagctggc tgtactgcca aggtacctag gttggagtc agcctaatac agtcaaatgg agaaacaggc ccagagagga aggtggctta ccaagatcac ataccagagt ctggagctga ctacactggg ttgggggcca agtcacaggt tggccagaaa accctggttaa gtaatgaggg ctgagtttgc acagtgtct ggaatggact gggcgccacg gtgacttag ctctgaggag taccocagc ccaagagatg aacatctggg gactaatatc atagacccat ctggaggctc ccatgggcta ggagcagtgt gaggctgtaa cttatactaa aggttgtgtt gcctgctaaa aaaaa MAADLGPWND TINGTWGDE LGYHCRFED FKYLPLPVSY GVVCVLGLCL NAVALYIFLC P RLKTNASTT YMFHLAVSDA LYAASLPLLV YYARGDHPV FSTVLCKLVR FLFYTNLYCS ILFLTCISVH RCLGLVLRPLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTSARGGR VTCHDTSAPL LFSRFVAYSS VMLGLLFAPV FAVILVCYVL MARRLLKPAY GTSGGLPRAK RKSVRTIAV LAVEFALCFLP FHVTRTLAYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGPSPAT PARRLGLRR SDRTDMQRIG DVLGSSSEDFR RTESTPAGSE NTKDIRL	Homo sapiens
218	3595	Purinergic Receptor P2Y1	NM_002563	ccccctccc cggggatcca gttegcctgc tcccttcgc tcgctggctt ttccgatgct A tgctgcgcc ctggcgccg ctgcccctctc gcgcctcctt accctcggga gccgcgcctt aagtcgagga gcagagaatg accgagtgct tgtggcggc tgtecccaac gggacggagc ctgccttcc ttggcggtccg ggttcgtctt ggggggaacg cacgggtcgc tccactgcgc ccgtctctc gtcttcaaa tgcgccttga ccaagacggg ctccagttt tactacctgc cggctgtcta catcttgta ttcatactg gcttcctggg caacagcgtg gccatctgga tgttcgtctt ccacatgaag ccttgagcg gcatactcgt gtacatgttc aatttgctc tgcccgactt ctgtactgt ctgactctgc cagccctgat ctctactac tcaataaaa cagactggat cttgggggat gccatgtgta aactgcagag gttcatcttt catgtgaacc tctatggcag catcttgttt ctgacatgca tcagtgccta ccggtacagc ggtgtggtgt acccctcaa gtccctgggc cggctcaaaa agaagaatgc gatctgtatc agcgtgctgg tgtggctcat tgtgtgggtg gcgatctccc ccactctctt ctactcaggt accggggtcc gcaaaaaaa aaccatcac tgttacgaca ccactcaga cgagtacctg cgaagttatt tcatctacag catgtgcag accgtggcca tgttctgtgt ccccttggtg ctgattctgg gctgttacgg attaatgtg agagctttga ttacaaga tctggacaac tctcctctga ggagaaaatc gattacctg gtaatacttg tactgactgt tttgtctgtg tcttacatcc ctttccatgt gatgaaaacg atgaacttga gggcccgctt tgattttcag accccagcaa tgtgtgcttt caatgacagg gtttatgcca cgtatcaggt gacaagaggt ctagcaagtc tcaacagttg tgtggacccc attctctatt tcttggcggtg agatactttc agaaggagac tctcccgagc cacaaggaaa gcttctagaa gaagtggagg aaatttgcaa tccaagagtg aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagatata gcctgtgaa ggcacaagaa tctccaaca cctctctgtt gtaatatgtt aggatgctta acagaatcaa gtactttcc cctctttaac ttcttagttt agaaaaaaat caaaccaaga aaatagttag	Homo sapiens

219	3595	Purnergic Receptor P2Y1	NP_002554.1	<p> ttaaataat aatagaagta gaaatgccc catccacact tagcttggtt gggtttgctt tcacagtctc tcttcctct gactagaagt atgtataata aaacaatact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcttt tctgttttaa gtgtgtgtgc acatgagtac tggggctgtt tttgatatta gtaattctc taagaaaaact agccccctgc aaattgagt tgtggtttat ctagccttta ttgtttttt aaatccaca gtaggataa aaaatctata tttcagaaa tatctagcat ggtatatac aaacacataa actcatcagt tcacccggca tcagatcaat ggtctctga gcgggtgtt tttttcagt tcttataagc atagatgata gttgactgag tttctttagg cattgaata gacaagttaa gctaatgaat ttaaagcct gaaaagtgt tgtttccag ttattctgg aaaggtctc attatatatt gggtgctaaa tgtttgatgg gaaaagcctg catatatat cgtactggta aaatgcattc aaaataatta aagtgcattg attttcctg taaacacat gactctctt agacatcttg tgataaagag catttactg cccactgct gtgcaatgcc ttaggacttt gtttgtgttc caggacaagt gttcactcac atctgtaaa acaatttaa gaattgcaaa taaattacag accaaagatt gagtaagtc aaataactgt tagtaagtgg aagatatgg gacaggagga cagtaattca gaaaaggaga ggtgacagt catccacaag catagcctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacatt tagaatgagg gcctttagtt taaattaaag tcatgtgga gaagactctt gctccacca agtgtttgaa aacacaaaat acgatataa aaaaaaaaaa aaa MTEVLPAPV NGTDAAFLAG PGSSWGNSTV ASTAAVSSSF KCALTKTGFQ FYLPAVYIL P VFIIIGFLGNS FAHNMVFHFM KPWSGISVYM FNLAADFLY VLTLPALIFY YFNKTDWIFG DAMCKLQRFI FVNLVGSIL FLCISAHRY SGVYPLKSL GRLKKNAIC ISVLVWLIV VAISPILFYS GTGVRKNKTI TCYDTSDEY LRSYFIYSMC TTVAMFCVPL VLILGICYGLI VRALIYKDLN NSPLRRKSIY LVIIIVLTVFA VSIYFHVNMK TMNLRLARDF QTPAMCAFND RVYATYQVTR GLASLNSCVD PILYFLAGDT FRRLSRATR KASRRSEANL QSKSEDMTILN ILPEFKQNGD TSL </p>	Homo sapiens
220	3596	Purnergic Receptor P2Y5	NM_005767	<p> ctgatgaag tgcctccaaa ctgaaaattg gacgtgcctt tacgatggta agcgtaaca A gtcctccactg cttctataat gactccttta agtacacttt gtaggggtgc atgttcagca tgggtgttgt gcttgggtta gtatccaatt gtgttgccat atacattttc atctgcgtcc tcaaagtccg aaatgaaact acaacttaca tgattaactt ggcaatgtca gacttgcttt ttgtttttac ttacccttc aggtattttt acttcacaac acggaattgg ccatttggag atttactttg taagatttct gtgatgctgt ttatatacaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccattt aagtcacaaga ctctaagaac caaaagaaat gcaaagattg ttgtcactgg cgtgtgggtta actgtgatcg gaggaaagtc accgcctgtt ttgttctagt ctaccactc ctagggtaac aatgcctcag aagcctgctt tgaataattt ccagaagcca catggaaaaa atatctctca aggattgtaa ttttcatcga aatagtggga ttttttattc ctctaattt aaatgtaact tgttctagta tgggtgctaaa aactttaacc aaaccagtta cattaagtag aagcaaaaa aacaaaaa aggttttaaa aatgattttt gtacatttga tcatattctg tttctgtttt gttccttaca atatcaatct tattttatat tctcttctga gaacacaaa atttgttaat tgcacagtag tggcagcagt aaggacaatg taccacaatca ctctctgtat tgctgtttcc aactgttgtt ttgaccttat agtttactac ttacatcagg acacaattca gaattcaata aaatgaaaa </p>	Homo sapiens

221	3596	Purinergic Receptor P2Y5	NP_005758.1	actggtctgt caggagaagt gacttcagat tctctgaagt tcatgtgtgca gagaatttta ttcagcataa cctacagacc ttaaaaagta agatatttga caatgaatct gctgcctgaa ataaaacac taggactcac tgggacagaa ctttcaag MSDLLEFVFTL YNDSFKYTL GCMFNMVFL GLVSNCAIY IFICVLKVRN ETTYMINLA P PFKSKTLRTK RNAIKVCTGV WLTVIGGSAP AVFVQSTHSQ GNNASEACFE NFPEATWKTY LSRIVIFIEI VGFFIPLILN VTCSSMVLKT LTKPVTLSRS KINKTKVLKM IFVHLIIFCF CFVPYNINLI LYSIVRTQTF VNCSSVAAVR TMYPIILCIA VSNCCFDPV YFTSDTIQN SIKMNWSVR RSDRFSEVH GAENFIQHNL QTLKSKIFDN ESEA	Homo sapiens
222	3597	Purinergic Receptor P2Y6	NM_004154	aaggacagag gagggccct tctctcagc tggctggag cagaggtggc tttgtctttt A cggaagaact ggttctgtg aatttgtgt tatttcccat caaggatcaa ggacctgctc tggggctacc tcaggggccc acaggatgag gggctgggtt tcagatgagt tttctgcttg cctgtcatct ggatagtgtc taaaaatttg caaactgcct tctgtcagt gtcttgctca ttcttcata cactctgat atgtctctca gtttctctat ctgctgcctc tccagacttc tggcagaaca ttgcacgga cagtttcagg cacagaactg actggcagca gggctgctc cacgagtgg aattgtctc agcacttcac ggactgcaag cgaggcactt gctaactctt ggatacaag acctctgcca gaagaacctat ggttttggaa ggcggagttc aggtgagga gatgggtgc gtctcagtg agccctgcc tccctgaaca taggaaccc acctgggcaag ccatggaatg ggacaatggc acaggccagg ctctggggtt gccaccacc acctgtgtct accgcagaa cttcaagcaa ctgctgctgc cacttggtta ttcggcggtg ctggcggtg gctgcccgt gaacatctgt gtcattacc agatctgac gtcccgcgg gccctgacc gcacggcct gtacaccta aacctgtctc tggctgacct gctatatgcc tgcctcctgc ccctgtcat ctacaactat gcccaagtg atcactggc ctttggcgac ttcgctgccc gcctggtccg ctctctctc tatgccaac tgcacggcag cactctctc ctacactgca tcagcttcca gcgtacctg ggcactgcc acctgtgc cccctggcac aaactgtggg gccgcccggc tgcctggcta gtgtgtgtg cctgtgtggt ggcctggaca acctagtgc tgccacagc catcttgct gccacaggca tccagcgtaa cgcactgtc tgctatgacc tcagcccgc tgcctggcc acctatata tgcctatgg catggctctc actgtcatcg gcttctgtct gcccttctg cccctgctg cctgctactg tctcctggcc tgcgcccgt gccgccagga tggcccggca gagcctgtg cccaggagcg gcgtggcaag gcggcccga tggcctgggt ggtggctgt gcttttgcca tcagcttctt gcttttcc atcacaaga cagctacct ggcagtgcg tcgacgcgg gcgtcccctg cactgtattg gagcccttg cagcggccta caaaggcag cggccgtttt ccagtgcac cagcgtgctg gacccatcc tcttctact caccagaag agttccgccc ggcgaccaca tgagctccta cagaaactca cagccaaatg gcagaggcag ggtcgctgag tctctcaggt cctgggcag cttcatattt gccatttgtt ccggggcacc agagcccca ccaaccccaa accatgcgga gaattagagt tcagctcagc tgggcatgga gttaaagatc ctacaggac ccagaagctc accaaaact attctctcag cccctctctt ggcccagacc ctgtgggcat ggagatggac agacctggg ctggctcttg agaggctcca gtcagccatg gagagctggg gaaaccacat taagtgctc acaaaaatac agtgtgacgt gtactgtcaa aa	Homo sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTGQA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P	Homo sapiens
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	TAVYTLNAL ADLYACSLP LLIYNYAQGD HWPFGEFACR LVRFLEYANL HGSILEFTCI SFQRYLGICH PLAPWHKRG RRAAWLVCVA VMLAVTTQCL PTAIFAATGI QNRRTVCYDL SPPALATHYM PYGMALTVIG FLPEPAALLA CYCLACRLC RQDGPAPVA QERRGKAARM AVVVAFAAI SELPFHITKT AYLAVRSTPG VPCTVLEAFA AAYKGRPFA SANSVLDPII FYTQKKERR RPHELLQKLT AKWQKGR CCTACCGGTC CATAGTGCA GAGTGGTGA cccctgcagc cagcagcct cctgaaaaa A aagtccatgg tagacagaag attcattgac ttccaattcc aagattcaaa ttcaagcctc agaccagggt tgggcaatgc tactgccaat aatactgca ttgttgatga ttccctcaag tataatctca atggtgctgt ctacagtgtt gtattcatct tgggtctgat aaccaacagt gtctctctgt ttgtctcttg ttccgcatg aaaaatgagaa gtgagactgc tatttttacc accaatctag ctgtctctga ttgtctttt gtctgtacac taccttttaa aatatattac aactcaacc gccactggcc ttgtgtgac accctctgca agatctctgg aactgcattc cttaaccaaca tctatgggag catgctcttt ctacactgta ttagtggga tegtctcctg gccattgtct atccttttgc atctgtact attagacta ggaggaaattc tgccattgtg ttgtctgggt tctggtatct agtctcagt ggcggtattt cagcctcttt gtttccacc actaatgtca acaatgcaac caccactgc ttgtgaaggct tctcaaacg tgtctggaag acttatttat ccaagatcac aatatttat gaagtgttg ggtttatcat tctcttaata ttgaatgtct ctgtctcttc tgtgtgtgctg agaactcttc caagcctgc tactctgtct caaattggga ccaataagaa aaaagtactg aaaaatgata cagtaatat ggcagtctt gtgtatgtct ttgtacccta caactctgc ctctcttgt atgctctgt gcgtcccaa gctattacta attgctttt gaaaagattt gcaaatgata tgtacccaat cactctgtgc ctgcaactc tgaactgttg ttgtacct ttcatctatt acttacct tgaatcctt cagaagtctt tctacatcaa tgcacatc agaattgagt cctgtttta gactgaaaa cctttgacca caaagccttc ccttcagct attcaagagg aagtgagtga tcaaacaca aataatggtg tgaattaat gctagaatcc accttttagg tatgagaaat gtgttcaggt ccagatatgg ttctctat aattttct atgtataaa cttaaagatt gaagctaag atactgagaa taatgcacca aatccagtca gatacatctg ttggaagga tactgtagag tttttattgc tgtttgttc agtaattata ggtcaaatct aattacaaca accaagatgg attgcaaac tctctgctt ggttggaatt tcattgtatc gcattatcca ggtggctagt ggcatttgat aatatagaga tgactttgaa actttcaaaa aggtatttct attccaatga tatttggtaa ttaggttggg cctataaata tagaacaatt tcagggattt taaaaaatt gtgttactac tgatatatgc tagttttatt ttattttttt ggaactgtcat tgagtttatt ttgacacaag aatattttta gcctaactt attaataga aatgtgtcaa atttttaaca ttgttaaaat atgtttatgt catttgaaa acagaaaaa aatgtgttg gcattgtcgt ggtgtggaag aaaaaaata ttaacagat ttacacaaat ataatacaca gcagtgtgag tttaaaaac ttctgtgttt ttacaccaa ttaaaattt catgtcaaac ttcaagacca gaaagtgt aatacgtgt ctggcaggta aaagtggaa aattacttaa aacaggaaa tgtcaataaa aaaacttgag caacaccaac atattttttc taaaaatgc acgttatctt cattttggga aactaggttc tataaaatat ttatctctcc tgttatactt tggagcacag cacagccaga aaggggctgc atttggccc aggtcaggag caaattgaaa aaaaaataa	Homo sapiens

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	<p>agtaatacta aaaaatcaaa ctataaaacc aaacatttta ttaaaacctg aattaatcctt ttttggagg aggatagag atataaacc tgaataact tattctttct tategaattt tggagcctaa tatagccagg agtgctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaa aaaaattcct</p> <p>MGDRFIDFQ FQDSNSSLRP RLGNATANNT CIVDDSFKN LNAVYVWVF ILGLITNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPFKIFYNF NRHWPFQDTL CKISGTAFLT NIYGSMLFLT R5IVDRFLAI VYFPRSTIR TRRNSAIVCA GWILVLGG ISASLFTTN VNNATTTCFE GFSKRWKTY LSKITIFIEV VGFIPLILN VSCSSVVLRT LRPKATLSQI GTNKKKVLKM ITVHMAVFW CFVPYNSVLF LYALVRSQAI TNCFLERPAK IMYPITLCLA TLNCCFDPMI YYFTLESFQK SFYINAHIRM ESFKTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF</p>	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	<p>ggcgggtggc ccgggcccga ccaccacagc tgcgcgtcgt tactggccac aagtttgctc A tgggccagcc aagttggcaa cttggaagct tctccgggc tctggaggag ggtccctgct tcttctaca gccgttccgg gcatggccgg gctggggcgg tgcctccacg tctggggttg gctaagtctc ggcagctgcc tctgtgcccag agcccagctg gattctgatg gcaccattac tatagaggag cagattgtcc tbtgtctgaa agcgaagta caatgtgaac tcaacatcac agtcacactc caggaggagg aagtaattg tttccctgaa tgggatggac tcatttggtg gcccagagga acagtgggga aaatatcgcc tgttccatgc cctccttata tttatgactt caaccataaa ggagttgctt tccgacactg taaccccaat ggaacatggg attttatga cagcttaaat aaacacatgg ccaattattc agactccctt cgccttttgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttcttgg ctgtggctat tctcatcatt ggttacttca gacgattgca ttgcactagg aactatatcc acatgcactt atttgtgtct ttcagtctga gagctacaag catctttgtc aaagacagag tagtccatgc tcacatagga gtaaaaggagc tggagtccct aataatgcag gatgacccac aaaaattccat tgaggccaact tctgtggaca aatcacataa tatcgggtgc aagattgctg ttgtgatgtt tatttacttc ctggctacaa attattattg gatcctggtg gaaggctctc acctgcataa tctcatcttt gtggcttctt ttcggacac caaatacctg tggggcttca tcttgatagg ctgggggttt ccagcagcat ttgttgcagc atgggctgtg gcacagagcaa ctctggctga tgcgagggtgc tgggaactta gtgctggaga catcaagtgg attatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt tctgaatacg gttagagttc tagctaccaa aatctggggag accaatgcag ttgggcatga cacaaggaa caatacagga aactggccaa atcgacactg gtccctgtcc tagtctttgg agtgcattac atcgtgttgc tatgcctgcc tcaactcctc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tcttcaactc acttcaaggt tcttttgtgt ctatcatcta ctgctactgc aatggagagg ttccaggaga gttgaagaag atgtggagtc ggtggaactc ctccgtggac tggaaaagga caccggccatg tggcagccgc agatcggtc cagtgtctac caccgtgacg cacagacca cagccagtc agcagtgccg ccagcacac gcatggtgct tatctctggc aaagctgcca agatcgccag cagacagcct gacagccaca tcactttacc tggctatgtc tggagtaact cagagcagga ctgcttccca cactctttcc acgaggagac caagggaagat agtgggaggc agggagatga tattctaag gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga</p>	Homo sapiens

227 3638 Parathyroid NP_005039.1 Hormone Receptor 2 (PTH2) Homo sapiens

catttggtgc tgactttcat gggctggtcc aatggctggt tgtgtgagag ggcttggtcg
 atactcctat gcttgagttc aaagctgaa aattcagta aggtgttact taataatagt
 ttttaggtc catgaattgg ctctgtata tactaaagac atgaataatgc aagtgtcaat
 ggagtagttt attaccttct attggcatca agttttcttc taaattaatg tatggtagtt
 gctctgtgat tttcattttt tttctgtctac ttttgggtgag aaaaaagatt caattgcttg
 gctgtagctt tctctcataat atataccctt aaataatag aagatctttt agtgtgtatc
 attttccttt tagaaactag tattctctta tttcttactt taatgtactt ctatcacatgc
 atttattttg cctgtgcata ggagcaatta ggaactaaaa aaatatatgg gaagataaaa
 gatctaagaa caagtacttg ctggaattt agttggctgg acattgataa aataatgcat
 ttataacaat tacatgtgtt tttgggaaca aggaattt ctcaaaaaag aatatttcac
 acatcccttc ttttgaatgg cctcttttg accagccaga cctcaggtct tcaactcttc
 ttctttgtaa accatgtcat gtggaagat ttcctcagtt agtgagcttg tgtctgcaaa
 ttgattttgt ttgtaatgta ttttgatagc aaatcatgct gcatctatat cttttcttg
 tttgagctgt tactacattg tacatggcat gtgggatcaa ttaaaaaattt gttttaaaaa
 t

228 3640 Parathyroid NM_000316 Hormone Receptor 1 (PTH1) Homo sapiens

cggagggagc cggccctagg cgggtggcgt tgggaccgcc cggatcgac ccggcctggc A
 gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg cagatgacgt
 catgactaaa gaggaacaga tcttctgctt gcaccgtgct caggcccagt gcgaaaaacg
 gctcaaggag gtcctgcaga gccagccag cataatggaa tcagacaagg gatggacatc
 tgctccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc
 tgaggaggac aaggaggcac ccactggcag caggtaccga gggcgcctt gctgcccga
 atgggaccac atcctgtgct ggcgctggg gccaccaggt gaggtggtgg ctgtgccctg
 tccggactac attatgact tcaatcaca aggccatgcc taccgacgt gtgaccgcaa
 tggcagctgg gagctgtgc ctgggcacaa caggacgtgg gccaaactaca gcgagtgtgt
 caaatttctc accaatgaga ctctggaacg gtaggtgttt gaccgctgg gcatgattta
 caccgtgggc tactccgtgt ccctggcgtc cctcaccgta gctgtgctca tctgggctta
 ctttaggcgg ctgcaactga cgcgcaacta catccacatg cactgttcc tgtccttcat
 gctgcgcgcc gtgagcatct tcgtcaagga cgtgtgtctc tactctggcg ccacgtttga
 tgaggctgag cgcctcacg aggaggagct gcgcgccatc gccaggcgc ccccgccgc
 tgccaccgcc gctgcccgtt acgcccgtg cagggtggct gtgaccttct tctttactt
 cctggccacc aactactact gattctgtgt ggaggggctg tacctgcaca gcctcatctt

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	<p>catggccttc ttctcagaga agaagtaacct gtggggcttc acagtcttg gctggggtct</p> <p>gccgctgtc ttctgggtg ttgtgggtcag tgtcagagct accctggcca acacgggtg</p> <p>ctggacttg agctcggga acaaaagtg gatcatcag gtgcccaccc tggcctccat</p> <p>tgtgtcaac ttcatcctt tcataatat cgtccgggtg ctcgccacca agctgcggga</p> <p>gaccaacgcc ggccggtgtg acacacgga cagtagtcgg agctgctca atccacgct</p> <p>ggtgtcatg ccctctttt gcgtccacta cattgtcttc atggccacac catacacga</p> <p>ggtctcagg agctctggc aagtcagat gactatgag atgtcttca actccttcca</p> <p>gggattttt gtgcgaatca tatactgtt ctgcaatgc gaggtacaag ctgagatcaa</p> <p>gaaatcttg agcgcgtgga cactggcact ggacttcaag cgaaggccac gcagcgggag</p> <p>cagcagctat agctacggcc ccattgtgtc ccacacaagt gtgaccaatg tcggccccc</p> <p>tgtgggactc ggccctggcc tcagccccc cctactgcc actgccacca ccaacggcca</p> <p>ccctcagctg cctggccatg ccaagccagg gaccccgcc ctggagacc tcgagaccac</p> <p>accacctgcc atggctgtc ccaaggacga tgggtcttc aacggctct gctcaggcct</p> <p>ggacgaggag gcctctggg ctgagcggcc acctgccctg ctacaggaa agtgggagac</p> <p>agtcattga ccaggcgtg ggggctggac ctgctgacat agtgatgga cagatggacc</p> <p>aaaagatgg tgggtgaatg atttccact cagggcctgg ggccaagag aaaaacagg</p> <p>aaaaaagaa aaaaaaaga aaagaaa</p>	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	<p>VTKEEQIFL LHRAQACEK RLKEVLQRP P</p> <p>SEEDKEAPG SRYGRPCLP EWDHILCWPL</p> <p>NGSWELVPGH NRTWANYSEC VKFLTNETRE</p> <p>YFRLHCTRN YIHMHLFSF MLRAVSIFVK</p> <p>PATAAAGVAG CRVAVTFFLY FLATNYIYWL</p> <p>LPVAVVAVV SVRATLANTG CWDLSSGNKK</p> <p>ETNAGRCDDR QYRKLLKST LVIMPLFGVH</p> <p>QGFVAILYC FCNGEVQAEI KKSWSRWTLA</p> <p>RVGLGLPLSP RLLPTATTNG HPQLPGHAKP</p> <p>LDEEASGPER PPALLQEEWE TVM</p> <p>gctgctgtca gtggaggcc agtggtgctg A</p> <p>cgtttccctg gctgtcact cggggcctg</p> <p>acgcgcagcc tgcaagtccg cggccagag</p> <p>agtggaggc cagtgtgtc gtgccaagaag</p> <p>ggctgcttc ctcctgtgc ctatggcccc</p> <p>ggagcaagcc atgtgcctg agaagatcca</p> <p>ttccttcca ggtgtcctg ggtgtggga</p> <p>ggctgagatg gctcgtgca gctgccccga</p> <p>ctgggagacc gaaacattg gagagctga</p> <p>agacatggga gtggtgagc ggaactgcac</p> <p>ttactttgat cctgtgggt ttgatgaata</p> <p>ctacctgtca gtgaaggccc tctacacggt</p> <p>cactgccatg gtcattcctt gtcgcttcg</p> <p>catgaacctg ttgtgtctg tcatgtgag</p>	Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	gagcaggaca gaaacacgtg ggcgatctcc gtcttcatca aagactggat tctgtatgag ggcgatctcc actgtggaat gtaagccgt catgttttc tccactact gtgtgtgac gtgtgggta tctactgga caccatatt ggctggggga ccccaactgt ggtgtgac gtgtgggta cgttgagat ctacttgat gacacaggc ctgtgggata ggtgtgac agactctgt ggtgggagc gtgtgggta ggtgtgag ctttttatt gattatct catctctgt catctctgt cagaaacttc agtctccaga catggaggc aatgagtcca gactctatt ggcactgac cggtccacc tgcgtctcat cccactatt ggaatccact acacagtatt tgcctctcc ccagagaatg tcagaaaag ggaagactc gtgttgagc tggggctggg ctctctccag ggtctttggt tggctgttct ctactgttt ctgaatggtg aggtacaagc ggagatcaag cgaatggc gaagctgga gtgaaacct tacttgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg ggtgaatggg ggcaccagc tctccactt gagcaagagc agtcccaaa tccgcatgtc tggcctccct gctgacaatc tggccacctg agcatgtc ccct	Homo sapiens
232	3844	Apelin Receptor	NM_005161	gagcaggaca gaaacacgtg ggcgatctcc gtcttcatca aagactggat tctgtatgag ggcgatctcc actgtggaat gtaagccgt catgttttc tccactact gtgtgtgac gtgtgggta tctactgga caccatatt ggctggggga ccccaactgt ggtgtgac gtgtgggta cgttgagat ctacttgat gacacaggc ctgtgggata ggtgtgac agactctgt ggtgggagc gtgtgggta ggtgtgag ctttttatt gattatct catctctgt catctctgt cagaaacttc agtctccaga catggaggc aatgagtcca gactctatt ggcactgac cggtccacc tgcgtctcat cccactatt ggaatccact acacagtatt tgcctctcc ccagagaatg tcagaaaag ggaagactc gtgttgagc tggggctggg ctctctccag ggtctttggt tggctgttct ctactgttt ctgaatggtg aggtacaagc ggagatcaag cgaatggc gaagctgga gtgaaacct tacttgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg ggtgaatggg ggcaccagc tctccactt gagcaagagc agtcccaaa tccgcatgtc tggcctccct gctgacaatc tggccacctg agcatgtc ccct	Homo sapiens

233	3844	Apelin Receptor	NP_005152.1	<p> tag ggtggagaac agatgcacga gaaatccatc cctcacagcc aggagaccct tgtggttgac MEEGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLPLWATYTY RDYDWPFGTF FCKLSSYLIF VMYASVFCL TGLSFDRYLA IVRPVANARL RLRVSGAVAT AVLWVLAALL AMPVMVLRTT GDLENTTKVQ CYNDYSMVAT VSSEWAVEVG LGVSSTTVGF VVPFTIMLTC YFFIAQTIAG HFRKERIEGL RKRRLLSII VLVVTFALC WMPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLYA FFDPRFRQAC TSMLCGQSR CAGTSHSSG EKSASYSSGH SQGPSPNMKG GGQMHKESI PYSQETLVD </p>	Homo sapiens
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	<p> gaattcggca cgagtcaggg aagcagcccc ggcggccagc agggagctca ggacagagca A ggtccctgg gaagctccg ggtgataggg gtgttccagc tgcggcgctc tgggggttca gagggggtc ttgaatgaac aatgaatga actgctttct gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacagggaaac cctcaggaag acctccggg cagagaccag agggaagccc atctctccag cagaactgct tggatttttc taccagggg ctcagggctc tgcaacaatg atagcagaag ctgatggcat ctagagatct aggcctggac tagcacagca tcacttctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtccactt cttgatggga ggcgtgacat agaattgagg atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttagactcca ttgtggtttt ggaggactta tccccctgg aagccagggt gaccaggatc ttccctggtg ttgtctacag catcgtctgc ttctctggga ttctgggcaa tggcttgggtg atcatattg ccacctcaa gatgaagaag acagtgaaca tggctctggtt cctcaacctg gcagtgccag atttccctgt caacgtcttc ctcccaatcc atataccta tgccgcatg gactaccact gggttttcgg gacagccatg tgcaagatca gcaacttctt tctatccac aacatgttca ccagcgtctt cctgctgacc atcatcagct ctgaccgctg catctctgtg ctctccctg tctggtecca gaaccaccg agcgttcgcc tggcttcat ggcctgcag gtcatctggg tcttggtctt ctcttgagt tccccatctc tctcttccg ggacacagcc aacctgcatg ggaataatc ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctgtgcccc ctcactccca atggacctt gtgggtata gccggcacat ggtgtgact gtcaccgct tctctgtgg cttcctggtc ccagtcctca tcatcacagc ttgctacctc acctcgtgt gcaaaactgca gcgcaaccgc ctggccaaga ccaagaagcc cttcaagatt attgtgacca tcatcattac cttcttctc tctgtgtgccc cctaccacac actcaacctc cttagagctc accacactgc catgacctggc tctgtcttca gcctgggttt gccccctggcc actgccccct ccattgcccc cagctgcatg aaccccatc tctatgtttt catgggtcag gacttcaaga agttcaaggt ggcctctctc tctgcctgg tcaatgctct aagtgaagat acaggcact tctctacc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaaccttca atggactctc tcaacctcagg gacacccaag gatattgtct ctgaagatca aggcaagaac ctcttttagc tccaccaatt ttcactgcat ttgcatggg atgaacagt ttttatgtg ggaattcagg gcttgaacc ctttctctt agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg cttcttggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc </p>	Homo sapiens

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatcgggtt ttggaattt ggtggaagtc actttgattt ctttaaaaaa catcttttca atgaatgtg ttaccattc ataccattc aagccgaat ctgcataagg aagccactt tatctaatg atattagcca ggatccttgg tgcctagga gaaacagaca agcaaaacaa agtgaatacc gaatggatta acttttgcaa accaaggag atttcttagc aaatgagtct aacaaatag acatcgtct tcccacttt tttgatgtt tattcagaa tcttggtga ttcattcaa gcaacaacat gttgatttt ttgtgtttaa agtactttt cttgattttt gaatgattt gtttcagaa gaagtattt tatggattt tctaaccctg gttaactttt ctagaatcca cctctgtg cccttaagca ttactttaac tggtagggaa cgccagaact tttaagtcca gctattcatt agatagtaag tgaagatag tataaatatt acaaagaata aaaaatatatt actgtctctt tagtatggtt ttcagtga ttaaacccgag agatgtcttg tttttttaa aagaatagta tttaataggt tctgacttt tgtgatacat tttgcacata gctttatcaa cttttaaca ttaataaact gatttttta aag	Homo sapiens
238	3847	Sphingolipid NM_005226 Receptor Edg3	LENIFVLLTI AHRSSVSDYV NYDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P EGSMFVALSA WFSLLAIAT ERYITMLKMK LHNGSNFRL FLLISACWVI SLILGGLPIM GWNCSALSS CSTVLPYHK HYILFCTVF TLLLSIVIL YCRIYSLVRT RSRRLTFRKN ISKASRSSEK SLALLKVII VLSVFIACWA PLFILLLLDV GCKVKTCDIL FRAEYFLVLA VLNSGTNP II YLTNKEMR AFIRIMSCCK CPSGDSAGKF KRPIIAGMEF SRKSDNSSH PQKDEGNPE TIMSSGNVNS SS atggcaactg cctcccgcc gcgtctcag ccggtgcggg ggaacagag cctgcggag A cattaccagt acgtgggaa gttggcgcc agctgaagg aggcctcga gggcagcacg ctcacaccg tgcctctctt ggtcatctgc agcttcacg tcttgagaa cctgatggtt ttgattgcca tctggaataa caataaattt cacaaccgca tgtactttt cattggcaac ctggctctct gcgacctgt tcccacggtc gcttaaaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggaggcgag tatgttcgtg gcccttggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaatg atcaaatga ggccttacga cgccaaacag aggcacccg tcttctcct gatcgggatg tgctggctca tgccttcac gctggcgcc ctgcccattc tgggtgga ctgcctgcac aatctccctg actgctctac catcctgcc ctctactcca agaagtacat tgccttctgc atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgcac catctacttc ctggtgaagt ccagcagccg taagtggtgc aaccacaac actcggagcg tccatggca ctgctgcgga ccgtgtgat tgtgtgagc gtgttcacg cctgctggtc cccactcttc atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gcccacatct cttcaaggct cagtggttca tctgtgtggtc tgtgtctaac tccgccatga acccggtcat ctacacgctg gccagcaagg agatgcggcg ggccttcttc cgtctggtct gcaactgctt ggtcaggga cgggggggcc cgccctcacc catccagcct cgctcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaa acctgcccc cacagacccc tcactctgca tcattggaca gaacgcagca cttcagaatg ggaatctctg caactga	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3	MATALPPRIQ PVRGNETLRE HYQYVGKLAG RLKEASEGST LTTVFLVIC SFIVLENLMV P LIAIWKNKF HNRMYFFIGN LALCDLLAGI AYKVNILMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLM IKMRPYDANK RHRVFLLIGM CWLIAFTLGA LPILGWNCLH	Homo sapiens

240	3848	C-C	NM_006641	<p> NLPCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LKSSSRKVA NHNSERSMA LLRTVVIVS VFIACWSPLF ILFLIDVACR VQACPILFKA QWFIVLAVLN SAMNPVIYTL ASKEMRRAFF RLVCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSPK VKEDLPHDTP SSCIMDKNAA LQNGIFCN gccctcatc ccaggcagag agcaaccag ctcttcccc agacactgag agctggtggt A gctgctgtc ccaggagag ttgcctcgc ctccacaagc cctattctta acatggctga tgactatggc tctgaatcca catctccat ggaagactac gtaacttca acttcactga cttctactgt gaaaaaaca atgtcaggca gtttgcagc ctttctcc cacccttgta ctggctcgtg ttcctcgtg gtgccttggg caacagcttt gttatccttg tctactggta ctgcacaaga gtgaagacca tgaccgacat gttccttttg aatttgcaa ttgctgacct cctcttctt gtcactcttc ccttctgggc ctttctgct gctgaccagt ggaagtcca gacctcatg tgcaaggtg tcaacagcat gtacaagatg aactttaca gctgtgtgtt gctgatcatg tgcatcagcg tggacaggtca cattgcatt gccaggcca tgagagcaca tacttggagg gaaaaaggc ttttgtacag caaatgtgtt tgctttacca tctgggtatt ggcagctgct ctctgcatcc cagaaatctt atacagcaca atcaaggagg aatccggcat tgctatctgc acctgggtt acctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcatcttg gttcttctt ccttctgct gtcattgctt gctgtatatc catcatcatt cacacctga tacaagcaca gaagtcttc aagcacaaag cctaaaaagt gacctcact gtctgaccg tctttgttt ccttcagttt ccttacaact gcattttgtt ggtgcagacc attgacgct atgccaatgt catctccaa tgtgcggtt ccaccaacat tgacatctgc ttccaggtca ccagaccat cgccttcttc cacagtgtcc tgaacctgt tctctatgt tttgtgggtg agagattccg cggggtatctc tgaaaaacc tgaagaactt gggttgcac agccaggccc agtgggtttc atttacaagg agagaggga gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ccttgagggt tcttctctga ggtgcattgt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagat gaaagagaaa agaaaactca gaaagggtg aatctgaact atatgattac ttgtagtcag aatttgccaa agcaaatatt tcaaaatcaa ctgactagt caggaggctg ttgattggct cttgactgtg atgcccga tttctcaagg aggactaagg accggcactg tgagcaccct tggctttgccc actgcgcgga gcatcaatgc cgtgcctct ggaggagccc ttggattttc tccatgcat gtgaactct gtggttctcag ttctcatgct gcctcttcca aaaggggaca cagaagcact ggtgctgct acagaccga aaagcagaaa gtttctgtga aatgtccatc tttgggaaat tttctacct gctcttgagc ctgataacc atgccaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt cttctgttct ccttgttctg ttctgggcca gtgaaggtcc ttgttctgat ttgaaaaa tctgcaggct ttgccagtga acccttgac aactgaccac acccacaagg catccaaagt cgttggctt ccaatccatt tctgtgtct gctggaggtt ttaacctaga caaggattcc gcttattctt tggtatgggt acagtgtct tccatggct gagcaggag attataacag ctgggttctgc aggagccagc cttggccctg ttgtaggctt gtctgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaaaagggt ggttcttttg gcctcttct tctgaggcc cactttattc tgaggatac agtgagcaga tatgggcag agccaggtag ggcaagggg tgaagcgag gccttgctgg aaggtattt acttccatgc ttctctttt cttactctat </p>	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	SMEDYVNFN FTDFYCEKNN VRQFASHFLP PLYWLVFIVG ALGNSLVILV P	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tggaggaaac attatttgaa gaatttgaaa actattccta tgacctagac A tattactctc tggagctcga tttggaggag aaagtcacgc tgggagttgt tcactgggtc tcctcgtgtg tatattgttt ggcttttgtt ctgggaattc caggaaaatgc catcgtcatt tgggtcacgg ggctcaagtg gaagaagaca gtcaccactc tgtggttctt caatctagcc attgaggatt tcatttttct tctctttctg cccctgtaca tctcctatgt ggccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaatt ccttcactgc ccagttgaac atgtttgcca gtgttttttt cctgacagtg atcagccctg accactatat ccacttgatc catcctgtct tatctcatcg gcatcgaaac ctcaagaact cctcgattgt cattatatc atctggcttt tggcttctct aattggcgtt cctgcctgtt acttcggga cactgtggag ttcaataatc atactctttg ctataacaat tttcagaagc atgacctga cctcactttg atcaggcacc atgttctgac ttgggtgaaa tttatcattg gctatctctt ccttttgcta acaaatgagta ttgtctactt gtgtctcatc ttcaagtgga agaagcgaa agtctgac tccagtaggc atttctggac aattctggtt gtggttgttg cctttgtggt ttgctggact ccttatcacc tgtttagcat ttgggagctc accattcacc acaatagcta tccccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tcctcaatag ttgcttgaac cccatcctt atgtccta atagtaagaag ttccaagctc gcttcgggtc ctcagttgct gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaaacagctc aggaaactcag aaaccaagaa tctgtgtctc ctggaacag ctcaataa	Homo sapiens
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	MEDLEETLFE EFENYSYDL D YSLESLEE KVQLGVVHWV SLVLYCLAFV LGIPGNAIVI P WFTGLKWKKT VTTLWFLNLA IADFIILFL PLYISYVAMN FHWPFGIWLC KANSFTAQLN MFASVFFLTV ISLDHYIHLI HPVLSHRHT LKNSLIVIF IWLLASLIGG PALYFRDTVE FNNHTLCYNN FQKHDPDLTL IRHHVLTWVK FIIGYLFLL TMSICYLCI FKVKRTVLI SSRHFWTILV VVAFFVVCWT PYHLFSIWEL TIHNNSYSHH VMQAGIPLST GLAFLNSCLN PILYVLISKK FQARFRSSVA EILKYTLWEV SCSGTVSEQL RNSETKNLCL LETAQ	Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggcctcat cgaccactcg gggcccccag gttctgact tatttcttg gctgcccg A gcggtcacaa ctcccgcga ccagagcgca gaggcctcgg cgggcaacgg gtcggtggct ggcgcgagc ctccagcgt cagcccttc cagagcctgc agctggtgca tcagctgaag gggctgatcg tgcgtctcta cagcgtcgtg gtggtcgtgg gctggtggg caactgcctg ctggtgctgg tgatcgcgg gggtcgccgg ctgcacacg tgacgaact cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgcctgag tgccgctcac gctggcctat	Homo sapiens

245	3850	G Protein- Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gcttcgagc cagcggtg ggtgttcggc gggtgctgt gccactggt cttctctctg cagccggtca cegtctatgt gtccgtgttc acgtcaacca ccactgcagt ggacgcctac gtcgtgctgg tgcacccgct gagcgggcgc atctcgtgc gcctcagcgc ctacgctgtg ctggccatct gggcgctgtc cgcgtgctg gcgtgcccgc ccgcgtgca cacctatcac gtggagctca agcgcacga cgtgcgcctc tgcgagagt tctgggctc ccaggagcgc cagcgccagc tctacgctg ggggctgctg ctggtcacct acctgctccc tctgctggtc atctctctgt cttacgtccg ggtgtcagtg aagctccgca accgctggt gccgggctgc gtgacccaga gccaggccga ctgggaccgc gctcggcgc gccgcaacct ctgcttctg gtggtggtcg tgggtgtgtt cgcgtctgc tggctcgcgc tgcacgtctt caacctgctg cgggacctcg accccacgc catcgacct tacgctttg ggtggtgca gctgctctgc cactggctcg ccctgagttc ggcctgctac aacctctca tctacgctg gctgcacgac agcttccgcg aggagctgcg caaactgttg gtccgttggc cccgcaagat agcccccat ggccagaata tgaccgtcag cgtggtcctc tga</p>	Homo sapiens
246	3851	G Protein- Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caatttaagc gggtgcctc gggattattt agatgccgt A gctgcggaga acatctcggc tgctgtctcc tccggggttc ctgcgttaga gccagagcct gagctgtag tcaacctcg ggacattgtc ttgtgtacct cgggaacct catctcctgt gaaatgccca ttgtgtctt tatcatctc cacaacccca gcctgcgagc acctatgttc ctgctaatag gcagcctggc tcttgacagc ctgctggcgc gatttgact catcaccaat ttgtttttg cctacctgct tcagtcagaa gccaccaagc tggtaacgat cggcctcatt gtcgcctctt tctctgctc tctctgcagc ttgtgggta tcaactgtga ccgctacctc tcactgtact acgctctgac gtaccttcg gagaggagcg tcaactttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctggggctgc tggcgttcat gggctggaac tgctccgag acgagtcac ctgcagcgtg tgcagaccgc tcaccaagaa caacgcggcc atcctctcgg tgcctctct cttcatgtt gcgctcatgc ttcagctcta catccagatc tgtaagattg tgatgagga cgcctcatg atagccctgc agcaccatt cctggccacg tcgcactatg tgaccacccg gaaagggtc tccacctgg ctatcatcct ggggacgttt gctgcttgcct ggatgcctt caccctctat tcttgcagc cggattacac ctacctctc atctatacct agccacct cctgcgcgc acctacaatt ccatcatcaa cctgtgcata tatgctttca gaaaccaaga gatccagaaa gcgctctgct tcatgtgctg cggctgcata ccgtccagtc tcgcccagag agcgcgctcg cccagtgtg tgtag</p>	Homo sapiens
247	3851	G Protein- Coupled Receptor GPR12	NP_005279.1	<p>ENAIIVLIIF HNPSLRPMF LLIGSLALAD LLAGIGLITN FVFAYLIQSE ATKLVITIGLI VASFASVCS LLAITVDRL SLYALTYHS ERTVTFTYVM LVMLWGTSTIC LGLLPVMGWN CLRDESTCSV VRPLTKNNA ILSVSFLFMF AIMLQLYIQI CKIVMRHAHQ IALQHHFLAT</p>	Homo sapiens

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAAILGTF AACWMPFTLY SLIADTYTYS IYTYATLLPA TYSINPVI YAFRNOEIQK ALCLICCGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcga cggcaggcct tcaccatgga tcagttccct A gaatcagatga cagaaaactt tgaatcagat gattggctg aggcctgta tatgggggac atcgtggtct ttgggactgt gttcctgtcc atattctact cgtcatctct tgccattggc ctggtgggaa atttgttggt agtggttgct ctcaccaaca gcaagaagcc caagatgtgc accgacattt acctcctgaa cctggccttg tctgatctgc tgtttgtagc caatttgccc ttctggactc actatttgat aaatgaaaaa ggcctccaca atgccatgtg caaatcact accgcttctt tcttcacgtg cttttttgga agcatattct tcataccgt catcagcatt gataggtaacc tggccatcgt cctggccgcc aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca cgagccattt tgggtggcagc acccagttc atggtcacaa agcagaaaaga aatgaatgc cttgtgtact acccggaggt ccttcaggaa atctggcccc tgcctcgcaa tgtggaaaaca aatttctctg gcttccact cccctgtctc attatgagtt attgtactt cagaatcacc cagacgtgt tttcctgcaa gaaccacaag aaagccaaaag ccattaaact gatccttctg gtggtcactg tgttttctt cttctggaca ccctacaacg ttatgatttt cctggagacg cttaaagctct atgacttctt tcccagttgt gacatgagga aggatctgag gctggccctc agtgtgactg agacggttg c atttagccat tgttgctga atcctctcat ctatgcattt gctggggaga agttcagaag ataccctttac cacctgtatg ggaatgcctt ggctgtcctg tgtggggcgt cagtcacagt tgatttctcc tcacttgaat cacaaggag caggcatgga agtgtcttga cgagcaattt tacttaccac acgagtgatg gagatgcatt gctcctctc tgaagggaat cccaaagcct tgtgtctaca gagaaacctg agttcctgaa cctgatgctg actagtggg aagattttg ttgttattc ttacaggcac aaaaatgatg acccaatgca cacaacaaca cctagagtgt ttgttgagaa ttgtgctcaa aattgaaaga atgaacaaat tgaactcttt gaatgacaaa gtagagacat ttctcttact gcaaatgtca tcagaaactt ttggttttga gatgacaaaa attcaactca gactagtta gttaaatgag ggtggtgaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaaagt aggggaacca gggcctgagc caagcta NP_001328.1 MDQFPESVTE NFEYDDLAEA CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALNSK P KPKSVTDIYL LNLALSLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEINFLGF LLPLLLMSYC YFRIIQLFS CNHKKAKAI KLILLVVIVF FLFWTPYNVM IFLETILKLYD FFPSCDMRKD LRLALSVTET VAFSHCLNLP LIYAFAGEKF RRYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccag agaaaacttc agttatttg gattattact atgctacgag cccaaactct A gacatcaggg agaccactc ccatgttctc tacacctctg tcttccctcc agtcttttac acagctgtgt tccctgactg agtgcgtggg aacctgttcc tcattgggagc gttgcatttc aaaccggga gccgaagact gatcgacatc ttatcata atctggctgc ctctgacttc atttttcttg tcacattgcc tctctgggtg gataaagaag catctctagg actgtggagg acgggctcct tcctgtgcaa agggagctcc tacatgatct ccgtcaatat gcactgcagt gtcctcctgc tcacttgc at gattgtgac cgctaccctg ccattgtgtg gccagtcga tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1		Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290		Homo sapiens

251	3853	G Protein- Coupled Receptor GPR15	NP_005281.1	MDPEETSVYL KPGSRRLIDI VLLLTCSVD PYCAEKATP KIIFIVAAF IYYIFDSYIR	DYYATSPNS FIINLAASDF RYLAIVWPV IKLIWSLVAL LVSWLPFNTF RAIVHCLCPC	DIRETHSHVP IFLVTLPLMV SRKFRRTDCA IVTFVPLLS KFLAIVSGLR LKNYDFGSST	YTSVFLPVFY DKEASIGLMR YVVCASIWFI KLCALHYQQSG QEHYLPFSAIL ETSDSHLTKA	TAVFLTGVLG TGSFLCKGSS SCLLGLPTLL KHKKLKXSI AFANSCWNPF ARRKRKRSVSL	Homo sapiens
252	3854	G Protein- Coupled Receptor GPR18	NM_005292	gaaagagaca ctggaaaacta acactgtttc agtggaaagt agtatcatgc cccttttaac tatcttcata caagaagaga tataatgact gtacttctgc tcttgccctt acttaaaaa cacgaccacc ctgcctcaag actgacattt tcataatctc aaggatcatc tttcgctttc caccttccctc acaatttcag cagaaaaagt atgaataata cgtaaatgga ttatcttcat	aagcagcaat ctttttaag cagaaaagac ctgaaaaatg ctaccaacaa agctcacatc attggattat accacggtaa ttaccctttc cagattcttg attagtctg acgtgcaag cctctgctac atttctgaca tttttcttga cttcacggca atcacgctgc ctgatgctgg atgaacctca gctcgagtca ttccgatctg aggttctttc tattctgtat	taaagtcagc caacaaaaga tattttaaca ctcatctctc gctgtaaat cagatgaata ttgtaacat ccatctatat gaatgtttta gagctctcac acagatacat ggccattgta ccgtgctggc tgctctataa tcacttatct ttcctttgtt ggactgtctaa tgggtcaggt gcctgtctgc gaacggggga gcacgtgtct ttagtgtcat gtagtctacg atttcaatcc aatactatca agtaaaaaa	ctccgagccc aaatacaaca aaagataatcc acacagaactt tgatggaca gaggttttca atacaatcaag gccttgtct tggttttca gcatagtggt gatgaatggc ccaagcattg cagccgaagt gctgggataa aagacctcca aacgtgctga gggtgctact ggttcattat gctgaaccc ttagtgcctt aatccctggg ctctactaca tcgtttcaaa gaagcatgcy gtgaaatgtt actactctgg aataaaacta cctctgaaaa agtcctttt	Homo sapiens	

253	3854	G Protein- Coupled Receptor GPR18	NP_005283.1	MITLNNQDQP VPENSHHPDE YKIALALVFS CIFIILGFVN ITALWVFEST TKKRTTITIY P	Homo sapiens
				MMNVALVDLI FIMTLPFRMF YYAKDEWPFEG EYFCQILGAL TVFYPSIALW LLAFTSADRY MAIVQPKYAK ELKNTCKAVL ACVGWIMTL TTTTPLLILY KDPDKDSTPA TCLKISDIY LKAVNVLNT RLTFEFLIPL FIMIGCYLVI IHNLLHGRTS KLKPKVKEKS IRIIITLLVQ VLVCFMPFHI CFAFLMLGTG ENSYNPWGAF TTFLMNLSTC LDVILYIYVS KQFQARVLSV MLYRNYLRSM RRSFRSGSL RSLSNINSEM L	
254	3855	G Protein- Coupled Receptor GPR19	NM_006143	aattaagaga aaaaaagtga atatgtttt tgctcacaga atggataaca gcaagccaca A tttgattatt cctacacttc tggatgcccct caaaaaccgc agctgcactg aaacagccac acctctgcca agccaatacc tgatggaatt aagtggaggag cacagttgga tgagcaacca aacagaccctt cactatgtgc tgaaccccg ggaagtggcc acagccagca tcttctttgg gattctgtgg ttgttttcta tcttcggcaa tctccctggtt tgtttggtca tccataggag taggaggact cagctaccca ccaactactt tgtgggtctcc atggcatgtg ctgacctctt catcagcgtt gccagcacgc ctttgcctct gctccagttc accatggaa ggtggacgct ggtagtgca acgtgcaagg ttgtcgata ttttccatat cttcactccag gtgtccagat ctacgttctc cttccatct gcatagaccg gttctacacc atcgtctatc cttgagcctt caagtgctc agagaaaaag ccaagaaaat gattgcggca tctgtggatct ttgatgcagg ctttgtgacc cctgtgctct ttttctatgg ctccaaatgg gacagtcatt gtaactattt cctccctccc tcttgggaag gcactgccta cactgtcatc cacttcttgg tggcctttgt gattccatct gtccctcataa ttttatttta ccaaaaggtc ataaaatata ttggagagat aggcacagat ggcgcgaacgg tgaggaggac aatgaacatt gtccctcgga caaaagtga aactatcaag atgttcccta ttttaaatct gttgttttgg ctctctgggc tgccttttca tgtagctcag ctatggcacc cccatgaaca agactataag aaaagttccc ttgttttccac agctatcaca tggatacctt ttagttcttc agcctctaaa cctactctgt attcaattta taatgccaat tttcggagag ggatgaaga gactttttgc atgtcctcta tgaatgtta ccgaagcaat gcctatacta tcacaacaag ttcaaggatg gccaaaaaa actacgttgg catttcagaa atcccttcca tggccaaaac tattaccaaa gactcgatct atgactcatt tgacagagaa gccaaaggaaa aaaagcttgc ttggcccatc aactcaaatc caccaaatc ttttgtctaa gttctcattc tttcaattgt tatgcaccag agattaaaaa gctttaacta taaaaacaga agctatttac atatttgtt tcaactcaact ttccaaaggga aatgttttat tttgtaaaat gcattcattt gttactgt	Homo sapiens
255	3855	G Protein- Coupled Receptor GPR19	NP_006134.1	MVFAHRMDNS KPHLIPTLL VPLQNRSCTE TATPLPSQYL MELSEHSWM SNQTDLHYVL P KGEVATASI FFGILWLF SI FGNSLVCLVI HRSRRTQSTT NYFVVSMA CA DLLISVASTP FVLLQFTTGR WTLGSATCKV VRYFQYLTGP VQIYVLLSIC IDRFYTIYVP LSFKVSREKA KKMIAASWIF DAGVTPVLV FYGSNWDSHC NYFLPWSWEG TAYTVIHFV GFVIPSVLLI LFYQVIKVI WRIGTDGRTV RRTMNIVPRT KVTKIMFELI LNLFLLSWL PFHVAQLWHP HEQDYKKSSL VFTAITWISF SSSASKPTIY SIYNANFRRG MKETFCMSSM KCYRSNAYTI TTSSRNKKNN YVGISEIPSM AKTITKDSIY DSFDREAKEK KLAWPINSNP PNTFV	Homo sapiens
256	3856	G Protein- Coupled Receptor GPR2/CCR10	NM_016602	agagatgggg acggagccca cagagcaggt ttcctggggc cattaactctg gggatgaaga A ggacgcatac tcggctgagc cactgcgga gctttgctac aagccgatg tccaggcctt cagccgggccc ttccaaccca gtgtctcctt gaccgtgggt gcgctgggtc tggccgggcaa tgccctgggtc ctggccccc accctggcagc ccgacgcgca gcgctctgc ccacctctgc	Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtctc cagctggccc tggccgacct cttgtgtggc ctgactctgc cttcggggc</p> <p>agcagggggt cttcaggggt ggagtctggg aagtgcacc tgcgcacca tctctggcct</p> <p>ctactcggcc tcttccacg cggcttctct cttctgtggc tgtatcagcg ccgaccgcta</p> <p>cgtggccatc gcgcgagcgc tcccagccgg gccggggccc tccactcccg gccgcgcaca</p> <p>cttggctctc gtcactgtgt ggctgtgtc actgtgctg cgctgctctg cgctgtctct</p> <p>cagccaggat ggccagcggg aaggccaacg acgtgtcgc ctcattctcc ccgagggcct</p> <p>cagccagacg gtgaaggggg cagcgcctgt ggccgagtg gccctgggct tcgctgtgct</p> <p>gctgggctgc atgttagcct gctacgcct tctgggcgc acgtgtctgg ccgccagggg</p> <p>gcccgagcgc cggcgtgctg tgcgcgtcgt gggtgctctg gtggcgccct tcgtgtgtct</p> <p>gcagtggccc tacagcctcg cctgtgtgt ggatactgct gtggcgccct ctgcgcgcga</p> <p>gcggagctgc cctgccagca aacgcaagga tgcgcactg ctggtgacca gcggcttggc</p> <p>cctcggccgc tgtggcctca atcccgctt ctacgccttc ctgggcctgc gcttcggcca</p> <p>ggacctggcg agctgtctac gggtgtggag ctgcctctca ggccctcaac ccgcgcggg</p> <p>ctgccccgc cggccccgc ttcttctctg ctacgcctcc acggagacc acagtctctc</p> <p>ctgggacaac tagggctgct aatctagag agggggcag ctgagggctg tgggaaagg</p> <p>gagttaggtg gggaacactg agaaagagg agggacctaa agggactacc tctgtgctt</p> <p>gccacattaa attgataaca tggaaatgaa aaaaaaaa aaaa</p>	Homo sapiens
				<p>VAALGLAGNG P</p> <p>LVLAHLAAR RAARSPTSAA LLQLALADLL LALTLPEAAA GALQWSLGS ATCRTISGLY</p> <p>SASFHAGFLF LACISADRYV AIARALPAGP RPSTPGRAHL RVIVVWLLSL LIALPALLES</p> <p>QDQREGQRR CLRIPEGLT QTVKGASAVA QVALGFALPL GVMVACYALL GRTLLAARGP</p> <p>ERRRALRVV ALVAAFVLIQ LPYSLALLD TADLLAARER SCPASKRKDV ALLVTSGLAL</p> <p>ARCLNPVLY AFLGLRFRQD LRRLLRGSS PSGPQPRGC PRRLSSCS APTETHSLSW</p> <p>DN</p>	
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgcccctctg tgtctccagc ggggccctctg gccggggcag tcccaatgc caccgagtg A</p> <p>acaaacagtgc ggaccaatgc cagcgggctg gaggtgccc tgttccacct gtttggcccg</p> <p>ctggacgagg agctgcctgc cacttccca ggctgtgctg tggcgtgat ggcgggtgac</p> <p>ggagccatct tcttgccagg gctggtgctc aacgggctgg cgtgtacgt cttctgtgctc</p> <p>cgcacccggg ccaagacacc ctacgtctc tacaccatca acctggtggt gaccgatcta</p> <p>ctggtagggc tgtccctgcc cagcgcctc gctgtgtact acggcgccag gggtgctg</p> <p>cgtgtgctt tcccgacgt cctcggttac ttctcaaca tgcactgctc catctcttc</p> <p>ctcacctgca tctgcgtgga ccgtacctg gccatctg gcgccgaag tcccgccgc</p> <p>tgcggccagc ctgctgtgct cagggccctg tgcgccttc tgtgctggc cgcgggtgctc</p> <p>gtcacctctg cgtgtcggg cgtgacagc agcggccct agcgcgtgt ctttgcgtg</p> <p>actgtcctg agttcctgct gcccctgct gtcacacag tgtttaccg ccgcatcatg</p> <p>tgtgactgt cgcggccggg tctgctccac cagggctgccc agcgcgcgt gcgggcccag</p> <p>cagctcctgc tcagggtgct catcatctt ctcgtctgct tcacgccc ccaagccgc</p> <p>caagtggccg tggcgtgtg gccgacatg ccacaccaca cagacctgt ggtctaccac</p> <p>gtggccgtga ccttcagcag cctcaacagc tgcattggacc ccatcgtcta ctgcttctc</p> <p>accagtggct tccaggccac cgtccgagc cttctcggc ctcacggaga gcgtgagccc</p> <p>agcagcgggt acgtggtcag catgcacag agctccaag gctcaggccg tcatcacatc</p>	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcaccg cctcaccacg gccctggcta atgggcccgaggcttag MPVSVPAGPS AGAVENATAV TTVRTNASGL EVPLFHLFAR LDEELHGTFF GLCVALMAVH P GAIFLAGLVL NGLALVFECC RTRAKTPSVI YTNLVVTDL LVGLSLPTRE AVYVGARGCL RCAPFHVLYG FLNMHCSILF LTCICVDRL AIVRPEAPAA CRQPACARAV CAFVWLAAAGA VTLSVLGVGT SRPCCRPFAL TVLEFLPLL VISVFTGRIM CALSRPGLLH QGRQRRVRAM QLLTVLIIF LVCFTPFHAR QVAVALWPDH PHSTSLVYH VAVTLSSLN CMDPIVYCFV TSGFQATVRG LFGQHGEREP SSGDVVSMHR SSKGSGRHHI LSAGPHALTQ ALANGPEA	Homo sapiens
260	3858	G Protein- Coupled Receptor GPR21	NM_005294	atgaactcca ccttgatgg taatcacagc agccaccctt ttgacctt ccatctggc A tattggaaa ctgtcaattt ttgacctttg gaagtatga ttattgtctt tctaactgta ttgattattt ctggcaacat catttgtatt ttgtatttc actgtgcacc ttgtttgaac catcacacta caagttattt tatccagact atggcatatg ctgacctttt tgttggggtg agctgggtgg tcccttcttt atcactctc catcacccc ttccagtaga ggagtccctg acttgcaga tatttggttt ttagtatca gttctgaaga cgtctccat ggtctctctg gctgtatca gattgatatg atacattgcc attactaac ctttaacctg taatactctg gttacacctt ggagactacg cctgtgtatt ttctgtattt ggctatactc gacctggctc ttcctgctt ctttttcca ctggggcaaa cctggatc ctggagatgt gtttcagtg tgtggaggt cctggcacac cgactctac ttacacctg tcatctgtat gatgttat gccccagcag ccttattgt ctgcttccac tatttcaaca tcttccgcat ctgccaacag cacacaaagg atatcagcga aaggcaagc cgcttcagca gccagatgg ggagactggg gaagtgcagg ctgtgcttga taagcgtat gccatggtc tgtttcgaat cactagtgt ttttacatcc ctgtgtgctc atatatcatc tacccttctg tggaaagctc cactggccac agcaaccgct tcgcatcctt cttgaccacc tggcttgcta ttagtaaacg ttctgccaac tgtgtaatt atagtctc caacagtga ttccaaagag gactaaagc cctctcaggg gctatgtga cttctgtgc aagtcagact acagccaacg accttacac agttagaagc aaaggccctc ttaatggatg tcatatctga MNSTLDGNS SHPFCLLAFG YLETNFCLL HHTTSYFIQT MAYADLFVGV SCVPSLSLL ACISIDRYIA ITKPLTYNTL VTPWRLRLCI CAESWHTDSY FTLFIVMMLY APAALIVCFY EVQACPDKRY AMVLFRTSV FYILWLPYII CVIYSLNSV FQGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	Homo sapiens
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1	atgtgttttt ctccattct ggaatacaac atgcagctg aatctaaccat tacagtgcca A gatgacattg atgacataca caccataatg taccatacc tatcatatcc gtttaagcttt caagtgtctc tcaccgatt tcttatgta gaaattgtgt tgggacttgg cagcaacctc actgtattgg tactttactg catgaaatcc aacttaatca actctgtcag taacattatt acaaatgaatc ttcatgtact tgatgtaata atttgtgtg gatgtattcc tctaactata gttatccctc tgccttact ggagagtaac actgctctca ttgtctgtt ccatgaggct tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgtatcac ttggacaga tatgacatct ctgtaaaacc tgcaaaccca attctgacaa tgggcagagc tgtaattgta atgatatcca ttgtgatttt tcttttttc tcttctctga tctctttat tgaggtaaat	Homo sapiens
262	3859	G Protein- Coupled Receptor GPR22	NM_005295		Homo sapiens

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p>tttttcagtc ttcaaatggtg aaatacctgg gaaaacaaga cacttttatg tgtcagtaca aatgaatact acactgaact gggaatgtat tatcacagt tagtacagat cccaatatc ttttcactg ttgtagtaaat gttaatcaca tacaccaaaa tacttcaggc tcttaatat cgaataggca caagatttc aacaggcgag aagaagaag caagaaagaa aaagacaatt tcttaacca cacaacatga ggctacagac atgtacaaa gcagtgtgg gagaaatga gtcttggtg taagaacttc agttctgtg ataattggc tccggcgagc tgtgaaacga cacgtgaac gacgagaaag aaaaagaga gtcttcagg gttctttatt gattatttct acatttcttc tctgtggac accaatttct gttttaata caccatttt atgttaggc cgaagtacc ttttagtaaa ataaagattg tgtttttag tcatggcta tggaacaact atatttcacc ctctattata tgcattcact agacaaaaat ttcaaaaggt cttgaaaagt aaaatgaaaa agcaggttgt ttctatagta gaagctgac cctgcctaa taatgctgta atacacaact cttggataga tcccaaaaga acaaaaaa ttacctttga agatagtga ataagaaa aacgttagt gctcaggtt gtcacagact ag</p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p>atgttgtgct cttccaagac agatggctca gggcactctg gtaggattca ccagaaaact A catggagaag gaaaagga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacgtggtg gtcgtggag gctgagcatg ccagcagat gtcagtctc agagcaaac ccatgtcaaa cagccaaacg ttgctcttc ttgtcccccagg atcacctcct cgacgggga gcatctccta catcaacatc atctgcctt cgggtgttcg caccatctgc ctcctggga tcatcgggaa ctccacggtc atcttcggtg tctgtaagaa gtccaagctg cactggtgca acaagtcctc cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgcccct catgatccac cagctcatgg gcaatgggtt gtggcacttt ggggagacca tgtgcacct catcacggc atggatgcca atagtcagt caccagcacc tacatcctga ccgcatggc catgacgcg tacctggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gcctcctgtg ggcctctcc ttcatcagca tcacctctgt gtggctgtat gccagactca tccctctcc aggaggtgca gtgggtgctg gcatacgctt gcccaacca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtggtcatca cagccgcata cgtgaggatc ctgcagcgca tgacgtctc agtggccccc gcctcccagc gcagcatccg cgtgcggaca aagaggtgga ccgacacag catcgccatc tgtctggtct tctttgtgtg ctgggcaccc tactatgtgc tacagctgac ccagtgttcc atcagccgac ccacctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gccaacagct gcctcaacc ctttgtgtac atcgtgctct gtgagacgtt ccgcaaacgc ttggtcctgt cgggtgaagc tgcagccag ggcagcttc gcgtgtcag caacgtcag acggtgac aggagggac agaaagcaaa</p>	Homo sapiens

265	3860	G Protein- Coupled Receptor SLC/MCH1	NP_005288.1	ggcacctga MLCPSKTDGS RAKPMNSQR HWCNNVPDIF YILTAMAI DR VCGGIRLPNP KRVTRTAIAI IVLCETFRKR	GHSGRIHQET LLLLSPGSP IINLSVVDLL YLATVHPIS DIDLWFTLY CLVFFVCWAP LVLSVKPAAQ	HGEGKRDKIS RTGSISYINI FLGMPFMIH TKFRKPSVAT QFFLAFLPF YYVLQTLQS GQLRAVNAQ	NSEGRENGGR IMPSVFGTIC QLMGNGVWHF FISITPVWLY LQRMSSVAP VIRTAAYVRI ISRPITLVY	GFQMGGSLE LLGIIGNSTV GETMCTLITA ARLIPFPGA ASQRSIRLRT LYNAAISLGY ANSCLNPFVY	Homo sapiens	
266	3861	G Protein- Coupled Receptor GPR25	NM_005298		atggccccc ttggacggcc tacatccccc gtgtggctgc ctggcggcag agggcgccgt acgcgttcgg gtgaagctgc ggcgtctggg cccttgccctg ctcagcttgc tactgccgca tcgtgcgca gcctgcggg ctgctggcgc gccaaccgc gcctggcggc gacgacagtt	cagagccctg tggagagct cgctctacct tggcgggcgc ctgacctggg ggcgttcgg cggcgcgct tcgagggcag ccgtggcgct ggggccagga tgcgtctgct tctgcgcgc tcattcttc cgcttccca tgcgttcgca tcattctac gcaccggccg gcctggcgcc	gagccccagc ggagctgtgt ggcgcccttc ggcgggcgcc cttcgtgctc cgatggcctc gctgctggcg gccactgcgc gctggcgcc cagccagtgc gtgaccttc cctgcgacgg catcgagagc cctggcgct cgcttccca tgcgttcgca tcattctac gcaccggccg gcctggcgcc	cgccctggga acctgcccta tgcctggcaa tggatacctt tgtggggcgc gcacgttcgc tggaccgcta tggaccgtgc tggtctaccg cctcccacgc tggtcgtcac tgggtcgggc gctcctggct tggcgtgcc tggccttcgt gagcccggc cagcctcctc acactgcctc	ctactcgggg cggctacgtc cgcctttgtg cgtgctgcac ggcgcggtct cctggcgggc gctggcgggc cctggcggtc ggggttgacg cttcccaggg cctcttctgc cctggcggaac gctcctggct gtgccccctg caacagctgc gctggacggg gctctccagg ggcctcctgg	Homo sapiens
267	3861	G Protein- Coupled Receptor GPR25	NP_005289.1	tag MAPTEPWSFS VWLLAGRRGP TRSAGALLLA PLPGGQDSQC SLRIIFAIES ANPLIYLLLD	PGSAPWDYSG RRLVDTFVLH GMSVDRLAV GEEPSHAFQG TFVGSWLPFS RSFRARALDG	LDGLEELELC LAAADLGFVL VKLLEARPLR LSLLLLLTFF ALRAVFHLAR ACGRTGRLAR	PAGDLPYGYV TLPLWAAAAA TPRCAVASCC VLPLVVTLFC YCRISRRLRR RISSASSLSR	YIPALYLAFF RRPWPFGDGL GWAVALLAG YCRISRRLRR ATCLAFVNSC DDSSVFCRA	AVGLLGNFV CKLSTFALAG LPSLVYRGLQ PPHVGRARRN ATCLAFVNSC QAANTASASW	Homo sapiens
268	3862	G Protein- Coupled Receptor GPR3	NM_005281		atgatgtggg gtaagcagcg aaggcctggg gtggtggcca agcctgggcc ttctgcacg accgccagca	gtgcaggcag tggggccagc tgtgtgtgct tcacgtggg tggcagacct gatgagcctg tcggcagctct	ccctctggcc agaggggccc tgcacatcca cactcctgcc gctggcaggc gatgagcctg actggccatc	tggctctcag acaggtccag ggcaccctgg tcccgctgcc ctgggcctgg gtgctgggtg actgtcgacc	caactggaat gccctcgccct gaatgcgcta tgcgtgtggc tctgtgctgc aatggccttt tctgtacaat	Homo sapiens

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	MMWGAGSPLA WLSAGSGNVN VSSVGPAGEP TGPAAPLPSP KAWDVVLICIS GTLVSCENAL P VVAIIVGTEPA FRAPMFLVIG SLAVADLILAG LGLVLHFAAV FCIGSAEMSL VLVGVLAAMAF TASIGSILLAI TVDRYLSLYN ALTYISETTV TRTYVMALV WGGALGLGLL PVLAWNCLDG LTTTCGVVYPL SKNHLVVLAI AFFMVFGLM QLYAQICRIV CRHAQQIALQ RHLLPASHYV ATRKGIATLA VVLGAFAACW LPFTVYCLLG DAHSPLYTY LTLLPATYNS MINPIIYAFR NQDVQKVLWA VCCCCSSKI PFRSRSPSDV	gacctacact actattcaga gacaaacagt gacgggacct atgtgatgct ggccttagtg tgggagggtg ccttgggact ggggtgctgt ggcgtgctgt ggcgtgctgt ggcgtgctgt ctgaccacat gtggcgtggt ttatccactc tccaagaacc atctgtagt tctggccatt gccttcttca tgggtgtttg catcatgctg cagctctacg ccaaatctg ccgcatcgtc tgccgccatg ccagcagat tgcccttcag cggcacctgc tgcccttcg ccaatctgt gccacccgca agggcattgc cacactggcc gtgggtgctg ggcctttgc cgcctgctg ttgcccttca ctgtctactg cctgctgggt gatgcccc gatccacct ctacacctat cttaccttgc tccctgccac ctacaaactc atgatcaacc ctatcatcta cgccttccgc aacaggatg tgcagaaagt gctgtgggt gctgtgctg cagtgatgc tag ccctccgat cccgtccccc cagtgatgc tag	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	atgccattcc caaactgctc agccccagc actgtgtgtg ccacagctgt ggggtgcttg A ctggggctg agtgtgggt ggtctgctg ggaacgcgg tgccgtgtg gaccttctg ttccgggtca ggggtggaa gccgtacgt gctacactgc tcaacctggc cctggctgac ctgctgttgg ctgctgctgt gcccttctg gcccttctt acctgacct ccaggcttg catctggcc ctgtggctg ctgggacctg cgttccctg tggacctcag ccgacgctg gggatggct tctggccgc cgtggcttg gaccgtacc tccgtgtgtt ccacctgg cttaaggta acctgctgc tctcaggcg gccctgggg tctcgggct cgtctggct ctgatgttg cctcactg cccgggctg ctcatctgt agccgcccc gaactccac agtgccaca gtttctact caggcagac ggtccttca gcatcatct gcaggaagca ctctcctgct ttcagttgt cctccccctt ggcctcatg tgttctgcaa tgcaggcatc atcagggtc tccagaaaag actccggag cctgagaaac agcccaagct tcagcggcc caggcactg tcacctgtg gtgtgtgtg ttgtctgt gcttctgt cgttctctg gccagagtc tgatgcacat ctccagaat ctgggagct gcaggcccc ttgtgagtg gctcatact cggatgtcac gggcagctc acctacctg acagtgtgt caacccctg gtatactgt tctccagccc cacttcagg agctctatc ggagggtctt ccacacctc cgaggcaag ggcaggcagc agagccccc gatttcaacc ccagagact ctattctga LLLAACLFPL AAFYLSQAW HLGRVGCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLSPQA ALGVSLQWL LMVALTCPL LISEAQNST RCHSFYSRAD GSFIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVVVL FALCFPLPCL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFHTL RGKQAAEPP DFNPRDSYS	atgccattcc caaactgctc agccccagc actgtgtgtg ccacagctgt ggggtgcttg A ctggggctg agtgtgggt ggtctgctg ggaacgcgg tgccgtgtg gaccttctg ttccgggtca ggggtggaa gccgtacgt gctacactgc tcaacctggc cctggctgac ctgctgttgg ctgctgctgt gcccttctg gcccttctt acctgacct ccaggcttg catctggcc ctgtggctg ctgggacctg cgttccctg tggacctcag ccgacgctg gggatggct tctggccgc cgtggcttg gaccgtacc tccgtgtgtt ccacctgg cttaaggta acctgctgc tctcaggcg gccctgggg tctcgggct cgtctggct ctgatgttg cctcactg cccgggctg ctcatctgt agccgcccc gaactccac agtgccaca gtttctact caggcagac ggtccttca gcatcatct gcaggaagca ctctcctgct ttcagttgt cctccccctt ggcctcatg tgttctgcaa tgcaggcatc atcagggtc tccagaaaag actccggag cctgagaaac agcccaagct tcagcggcc caggcactg tcacctgtg gtgtgtgtg ttgtctgt gcttctgt cgttctctg gccagagtc tgatgcacat ctccagaat ctgggagct gcaggcccc ttgtgagtg gctcatact cggatgtcac gggcagctc acctacctg acagtgtgt caacccctg gtatactgt tctccagccc cacttcagg agctctatc ggagggtctt ccacacctc cgaggcaag ggcaggcagc agagccccc gatttcaacc ccagagact ctattctga LLLAACLFPL AAFYLSQAW HLGRVGCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLSPQA ALGVSLQWL LMVALTCPL LISEAQNST RCHSFYSRAD GSFIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVVVL FALCFPLPCL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFHTL RGKQAAEPP DFNPRDSYS	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	cgaggcaag ggcaggcagc agagccccc gatttcaacc ccagagact ctattctga MPFPNCAPS TVVATAVGVL LGLECGGLL GNAVALWTEL FRVRWKPYA VYLLNLALAD P LLLAACLFPL AAFYLSQAW HLGRVGCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLSPQA ALGVSLQWL LMVALTCPL LISEAQNST RCHSFYSRAD GSFIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVVVL FALCFPLPCL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFHTL RGKQAAEPP DFNPRDSYS	cgaggcaag ggcaggcagc agagccccc gatttcaacc ccagagact ctattctga MPFPNCAPS TVVATAVGVL LGLECGGLL GNAVALWTEL FRVRWKPYA VYLLNLALAD P LLLAACLFPL AAFYLSQAW HLGRVGCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLSPQA ALGVSLQWL LMVALTCPL LISEAQNST RCHSFYSRAD GSFIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVVVL FALCFPLPCL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFHTL RGKQAAEPP DFNPRDSYS	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctggtgacct tacttatctc tgttgcttcc tggggctcta ggaatgcca gcaactccc A ccacattgct tgaacttccc aacactccct agctgcgtg tgtcctatct caacacttcc tcattgtatt ctgtgtgtt ctagaacatt cccccccat tattacttca ataggctac	ctggtgacct tacttatctc tgttgcttcc tggggctcta ggaatgcca gcaactccc A ccacattgct tgaacttccc aacactccct agctgcgtg tgtcctatct caacacttcc tcattgtatt ctgtgtgtt ctagaacatt cccccccat tattacttca ataggctac	Homo sapiens

GPR4

acatacttc taattgccct gaaaccatc tccttctcāc cattgccag cgatgctttc
gtctctcca taacactcc cgagaccāa tttttgtgc accccatāc tccctgctg
acacatgac tccatacata acctcttga aaacctctt tattaatctc accatctcc
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tctacatctt tgtcatggc gtggggtgc ccaccactg cctggctctg tggcggcct
accgcaagt gcaacagcg aacgagctgg cgtctact gatgaactc agcatcgccg
acctgctgta catctgcac ctgcccgtgt ggttgacta ctctctgac cagacaact
ggatccacgg cccgggtcc tgcaagctct ttgggttcat ctctacacc aatatctaca
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acaaccacac ctctgcttt gagaagtcc ccattggaag ctgggtggcc tggatgaacc
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cgctcttttc tgcataccac agctcactgg ctctcaccg cctcaactgt gtggcggacc
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acctgctccg ctctctggc agcacaag ccaggagat ggccaatgcc tgcctaccc
tggagacccc actacctcc aagaggāaca gcacagcāa agccatgact ggagctggg
cgccactcc gccctccag ggggaccag tgcagctgaa gatgctgcc ccagcacaat
gaaccctgag tggcacagaa tcccagttt tccctctca tccacagtc ccttctctc
tggctgtgtg tatgcaatt gtatggāaa agggctgtgt taatattcat aagaatāaa
gaacttagga agagtagggt tgggtgtca ctggtcāac ttgtgtctc cagatcccat
cacagtgtg cgatttgga gggcctctctg aaggaggaga tgaataata tattttttt
gagacaggt ctactgtgt tggcaggt tgcagctg agtgagtcg tggctcactg
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ctcactatgt ttcccagc tgacttgāa ctctgggct caagagatcc tctgctctg
gcctccāaa gtgtcagat tagagatgt agccgctatg tctggccaga taaatāagt
caacatttg gttccagaa aataaagaca aatagatggt gttagatttt ttttttcca
acaagtggat aaagtctgt gactcgggg gaaagtgaag gāaaatgca gccgatata
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aagtttctag ataaacagc atctcāagt caagactgag gatgaagag gāaaatgca
gaactcaagt gaaggcaat cagggcagac tgcctggag agtgatgcca gaaggtttgg
gaagaagggt tgggacaaga agaaagggt tttattcatt cattcaacag aggtttatgt
agggcactgt gctgggtgg gctggggaca caacaatgac tgaggcagcc tggccttggc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacaggcg tcaccatata caagtaataata aaaaatatgt aatgtttgga attgct MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPNCIALMW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWHGPGSC KLFGEIFYTN IYISIAFLCC ISVDRIYLA HPLRFARLRR VKTAVAVSSV VMATELGANS APLFHDELFR DRYNHTFCFE KFPMEGWVAV MNLRYRVFVG LFWALMLLS YRGILRAVRG SVSTERQEKA KIKRLAISLI AIVLVCAPY HVLLLSRSAL YLGRPWDCGF EERFESAYHS SLAFTSLNCV ADPILYCLVN EGARS DVAKA LHNLRLFLAS DKPQEMANAS LTLEPLTSK RNSTAKAMTG SWAATPFSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tccacggtgg tggtagtggc ggccgaagga A gcggcgccgg cggccacagc agcagggggg cgggacacgg gcgaatgggg accccctgct gcggcgccctc taggagccgg cggcgagctc aatgggtctc tggagctgtc ctgcagctg tcggctgggc caccgggact cctgtgcca cgggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatcgc tggagaaaac gcctcgtgtg tggcgctcat cgcgtccact ccggcgctgc gcacgcccc gtctgtgtg ttccagttc tggcgaccgc tgacctgttg gcgggctgtg gctcatctt gcactttgtg ttccagttc tggcgccctc ggagactgtg agtctgctca cgggtgggctt cctcgtggcc tcctcgtcgc cctcgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacggcg tcacctatta ctgcgcggg acctgttgg gcgtgacct cctgtctgcc gccacttggg ccgtgacct agccctgggg ctgctgcccg tctgtggctg gaactgctg gcagagcgcg ccgctgctg cgtggtggcg ccgtggcg gcagccact ggcctgtctc tcgcgcctc tctcattggt cctcggcatc atgtgcacc tgaactgtg cactgtccg tgggtgtgg ccacagcgca ccagatcgcg ctgcagcagc actgcctggc gccaccccat ctgcctgcca ccagaaaagg tgtgggtaca ctggtgtgg tgcgtggcac ttccggcgcc agctggctgc cctcgcctc ctattgctg gtggcgagcc atgaggaacc ggcggtctac acttacgcca cctgctgcc cggcacctac aactccatga tcaatcccat catctatgcc ttccgcaacc aggatccca gcgcgcctg tggctcctgc tctgtggctg ttccagttcc aaagtgcctc ttcgttccag gtctccacg gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	MNASASIND SQVVVVAEG AAAATAAGG PDTGEWGPFA AALGAGGGA NGSLELSSQL P SAGPPGILLP AVNPWDVLLC VSGTVIAGEN ALVVALIAST PALRTPMFVL VGSLATADLL AGCGLIHFV FQYLVSETV SLLTVGFLVA SFAASVSSL AITVDRLSL XNALTYSRR TLGVLHLLA ATWTVSLGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMFGI MLHLYVRICQ VVWRHAHQIA LQOHCLAPPH LAATRKGVGT LAVLGTFGA SWLPEAIYCV VGSHEDPAYV TYATLLPATY NSMINPIIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgtctc ggagccctgg ccgcgcaacg catcgggccc ggaccggcg A ctgagctgct ccaacgctc gactctggcg ccgctgccc gcgctggc ggtggctgta ccagttgtct acgcggtgat ctgcgccgtg ggtctggcg gcaactccgc cgtgctgtac gtgtgtgtgc gggcgcccc catgaagacc gtcaccaacc tgttcacct caacctggcc atcgccgacg agctcttcac gctggtgtg cccatcaaca tcgccgactt cctgctgctg cagtgggccct tcgggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacac	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	MDNASFSEPW PANASGPDPA LSCSNASTLIA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P VLLRAPRMKT VTNLFILNLA IADEFLLVL PINIADELLR QWPFGEIMCK LIVAIQYNT FSSLYFLTM SADRYLVVLA TAESRRVAGR TYSAARAVSL AVWGIVTLVV LPFAVEARLD DEQGRRCQVL VFQPEAFNW RASRLYTLVL GFAIPVSTIC VLYTTLCLRL HAMRLDSHAK ALERAKKRVF FLVAILAVC LLCWTPYHLS TVVALTTDLP QTPLVIAISY FITSLTYANS CLNPFLYAFI DASFRRLRQ LITCRAAA	ttctccagcc ttacttctct caccgtcatg agcgccgacc gctacctggt ggtgttgccc actgcggagt cgcgcgggtt ggccggcgcc acctacagc cgcgcgcgc ggtgagcctg gccgtgtggg ggatcgtcac actcgtcgtg ctgccttcg cagcttcgc ccggtagac gacgagcagg gccgcgcaca gtgcgtgcta gtctttcgc agccgagcc cttctgtgg cgcgagagcc gccctacac gctcgtcgtg gcttcgcca tcccggtgc caccatctgt gtccttata ccacctgct gtgcggctg catgccatgc gctggacag ccagcccaag gccctggagc gcgccaagaa gcgggtgacc ttctggtgg tggcaatcct gcgggtgtgc ctctctgct ggagccctca ccacctgagc accgtgtgg gcctaccac cgacctccc cagacgccgc tggctcatgc tatctctac ttcatcaca cctgacgta cgccaacagc tgctcaacc cttctctca cgccttcctg gacgccagct tccgcaggaa cctccgccag ctgataactt gccgcggcgc agcctga	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	atgcaggccg ctgggcaacc agagccctt gacagcagg gctccttctc cctccccacg A atgggtgccca agctctctca ggacaatggc actggccaca atgccacctt ctcggagcca ctgccttcc tctatgtgct cctgcgcgc gtgtactccg ggtactgtgc tgtggggctg actggcaaca cggcgtcat cctgtaatc ctaagggcgc ccaagatgaa gacggtgacc aacgtgttca tctgaacct gccgtgccc gacgggctct tcaagctggt actgcccgtc aacatcgcg agcacctgct gcagtactgg cccttcgggg agctgctctg caagctgggtg ctggccgtcg accactaca catcttctc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccacgtg aggtcccgcc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgct tggctggcg tcaaggtcct ggttctgccc ttcttctct tgcgtggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgtagc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtgtgc ccgtgtgac catctgtgtg ctctacacag acctcctgcg caggctgcgg gccgtgcggc tccgctctgg agccaaggct ctaggcaagg ccaggcgga ggtgaccgtc ctggtcctcg tgaccacgga cctgccccag acccaactgg tcatcagat gtcctacgtc gtcgtggccc tgaccacgga cctgccccag acccaactgg tcatcagat gtcctacgtc atcacacagc tcaagtacg caactcgtg cgaacccct tctctacgc cttcttagat gacaaactcc ggaagaactt ccgagcata ttgcggtgct ga	Homo sapiens	
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1	MQAAGHPEPL DSRGFSLEPT MGANVSQDNG TGNATFSEP LPFLYVLLPA VYSGICAVGL P TGNTAVILVI LRAPMKTVT NVFILNLAVA DGLFTLVLPV NIAEHLLOQY PFGEILLCKLV LAVDHYNIFF SIYFLAMVSV DRYLVVLATV RSRHMPWRTY RGAASLVCV WLGVTVLVLP FFSFAGVYSN ELQVPCGLS FPWPERVWFK ASRVYTLVLG FVLPVCTICV LYTDLLRRLR AVRLRSKAKA LGRKARKTV LVLVLAACL LCWTFPHLAS VVALTTDLPO TPLVISMYSY ITSLTYANSC LNPFLYAFEL DNFRKNFRSI IRC	Homo sapiens	

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactagcgga ggcgctccat cggactcaat agccgcactc A atgaatcggc accatctgca ggaactctt ctggaatatg acaagaagaa ctgctgtgtg ttccagatg acttcattgc caagtggttg ccgcggtgt tgggcttgga gtttatcttt gggcttcttg gcaatggcct tgccctgttg atttctgtt tccacctcaa gtccctgaaa tccagccgga tttctctgt caactggca tgactgact ttctactgat catctgctg cggctcgtga tggactacta tgtgcggcgt tgaactgga actttgggga catcccttg cggctggtgc tcttcattgt tggcatgaac cgccaggga ccatcatctt cctcacggtg gtggcggtag acaggatatt cgggtggtc catccacc agccctgaa caagatctcc aatggacag cagccatcat ctctgctt ctgtgggga tcaactgttg cctaacagtc cacctcctga agaagaatt gctgatccag aatggccctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggcagaa gctatgttcc tccctgagt cctcctgccc ctgggcatca tccgttctg ctacagccaga attatctgga gcctgggga gagacaaatg gaccggcatg ccaagatcaa gagagccatc acctcatca tgggtgtggc catcgtcttt gtcatctgct tccctccag cgtggtgtg cggatccga tcttctggt cctgcacatc tcgggcacgc agaattgtga agtgtaccg tcggtggacc tggcgttct tatcacttc agcttcacct acatgaacag catgctggac cccgtggtg actacttct cagccatcc tttcccaact tcttccac ttgtatcaac cgtgctcc agaggaagt gacaggtgag ccagataata accgcagcac gagctcgag ctacacaggg acccaacaa aaccagaggc gtccagagg cgttaatggc caactccgt gagccatga gccctctta tctgggccc acctcaata accttccaa gaaggacat tgtcaccaag aacagcatc tctggagaaa cagttgggct tttgcacga gtaatgtcac tggactggc taaaggtttc ctggaacttc cagattcaga gaactgatt tagggaaact taggcagatg agtgggagac tgggtgcaag gtgtgaccac aggaatcctg gaggaacaga gactaaagt tctaggcatc tgaacttgc ttcatctctg acgctcgag gactgaagt gggcaaatg taggcgtttc tctgagcag agttggagcc agagatctac ttgtgacttg ttggccttcc tccacatct gcctcagact gggggggct cagctcctg ggtgatatct agcctgcttg tgagctctag cagggataag gagagctgag attggaggga attgtgttgc tccctggaggga agccaggga tcattaaaa agccagttag tcacctgct tccgtggacc aattcatct tcagacaaagc tttagagaaa tggactcagg gaagagactc acatgcttg gtagtatct gtgttccgg tgggtgtaat aggggattag cccagagg gactgagta aacagtgtta ttatgggaaa ggaatggca ttgctgcttt caaccagca ctaatgcaat ccattcctct ctgtttata gtaactaaag ggttgagcag ttaaacggc ttcaggatag aaagctgtt ccacactgt tcgttttacc attaaaaggg aaacgtgct ctgccccacg gtagagggg gtgcacgttc ctcctgggtc ctcgtctgt gttctgtac ttacccaaaaa tctaccact caataaatt tgataggaga caaaaaaaa a	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	NRHHLDHF LEIDKKNCCV FRDDFIKVL PPVLGLEFIF GLLGNLALW IFCFHLKSWK P SSRIFFENLA VADFLIICL PFVMDYYVR SDWNFGDIPC RLVLFMFAMN RQSIIFLTV VAVDRYFRV HPHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWHE AMELLEFLP LGIILFCSAR IWSLRQRM DRHAKIKRAI TEIMVAIVE VICFLPSVV RIRIFWLHT SGTQNCVYR SVDLAFFITL SFTYMSMLD PVVYFSSPS FPNFFSTLIN RCLQRMTGE PDNRRSTVE LTGDPNKTGR APEALMANSG EPWSPSYLGP	Homo sapiens

282	3870	G Protein- Coupled Receptor OGR1	NM_003485	TSNNHKKGH CHQEPASLEK QLGCCIE.	atggggaa tcactgaga caactcctcg atgagctgta ccatacgacca taccatccac A cagacgtgg ccccggtggt ctatgttacc gtgctggtgg tgggcttccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aaggccgga acgagctggg cgtgtacctg tgcaacctga cggtgccga cctcttctac atctgtcgc tgccttctg cgtgcagtac gtgctgcagc acgacaactg gtctcagcg gacctgtcct gccaggtgtg cggcatcctc ctgtacgaga acatctacat cagcgtgggc ttcctgtct ccatctcgt ggaccgtctac ctggtgtgg cccatccctt ccgctccac cagttccgga cctgaaggc ggcgttcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggcagagaa ccagcacgc gtgtgctttg agcactacc catccaggca tggcagcgc ccataacta ctaccgttc ctggtgggct tctcttccc catctgctg ctgctggcgt cctaccaggg catctgcgc gccgtgcgc ggagccacgg caccagaag agccgaagg accagatcca gggctggtg ctacagaccg tggcatctt cctggcctgc ttcctgccct accagtggt gctgctggtg cgcagcgtct gggaggccag ctgcgacttc gccaaaggcg ttttcaagc ctaccactt tccctcctgc tcaccagctt caactgcgtc gccgaccccg tgcctactg ctctgcagc gagaccacc accgggacct ggcgcgctc cgcggggcct gccctgctt cctcacctgc tccaggaccg gccggggccag ggaggcctac ccgctgggtg ccccgaggc ctccgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccggc ctccagacc cctaacctgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCITDHTH QTLAPVVVT VLVGFPANC LSLYFGYLQI KARNELGVYL P CNLTVDLFY ICSLPFWLQY VLQHDNWSHG DLSCQVCGIL LYENIYISVG FLCCISVDYR LAVAHPRFH QFRTLKAAVG VSVIWAKEE LSIYFLMHE EVIEDENQHR VCFEYPIQA WQRAINYYRF LVGFLFPICL LLASYQGILR AVRRSHGTQK SRKDQIQRLV LSTVWIFLAC FLPYHVLLLV RSVWEASCDF AKGVFNAYHF SLLTSTFNCV ADPVLYCFVS ETTHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggctcggg gggccggcc accagacccc tgatgttcgt ggcggtgtg gtgggcaacg ggctggccct gggcatcctg agcgcaaggc gaccggcgcg cccctcgcc ctctctgagc ccggcgtgt tgcgtacccg actggcgcc accgacctgc tgggcaccag ctctctgagc cccgcccgtt gcgatgcctt cgccttcgcc agctccctgc tgggcccggc ccgagggcg gccgcccgtt ccatggcctt ggccttcgcc atgaccttct tcggcctggc gtccatgctc atctctttt ccatggcctt ggccttcgcc ctggcgctga gccaccctta cctctacgag cagctggagc ggcgccgctg cgcgcgctg gcgctggcag ccactacgc ctctgcgtc ctcttctgag cgtgccccct gctgggcccgtg ggccaaacc agcagtactg ccccgagc tgggtcttcc tccgcatgct gctgggcccag ccgggcccgg ccgcttctc gctggcctac gccggcctgg tggccctgct ggtggctgcc atcttctctt gcaacggctc ggtcacccctt gcctctgccc gcatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggcagaggt ggaccacctg	Homo sapiens	

285	3921	Prostacyclin NP_000951.1 Receptor	atcctgtg cccatcatgac agtgggtcatg gccgtgtgct cctgcctct cagatccgc tgcttcccc aggtgtgctg cccgtgacag agcagtga tgggggacct cctgccttc cgcttctacg ccttcaacc cctctggac ccttggtctt cctctcttt cgcgaagct gtcttccagc gactcaagct ctgggtctgc tgcctgtgct cgggctgc ccacggagac tcgcagacac ccttttccc gctgcctcc gggagggagg acccaaggc cctctctgct cctgtgggaa aggaggggag ctgctgctt ttgctggctt gggcgaggg caggtggag ccttgcttc ccacacagca gtccagcgc agcgctggt gaaactgct caaagcagaa gccagcgtc cctgctccct ctgctgacat tcaagctga cctgtgat tctgctctg cttcggggca caggagccag aaatcagg acatggctga tggctgctga tctgggaacc ttggccccc aactctggg ccatcagct gctgttctc ctgcggcagg gcagtcgctg ctggctctgg gaagagagtg agggacagag gaaactgtta tccctgagt cagaaagaat ggttctctca aaataaccag tggcctggc gactgctct ggccctggt tcccatcca tctcatgtc taaatattta gaaggcggag aagtctctt aggtctctt acagtcaggt ctgctctggt ctgggtgctg gctccaatct gcttccactt aggggcccc actgcccc ccaagtccc agggatggc cctcccttc taccagcca ctccaagag cagccccctt tctgtctcc aaaaaccaca gttattgga aagctccctg ccttccctg ccgctggtcc ccaccaggc ttgggagccc tggcatccca aaggggcaac gggaggaaag gaggctgct gcattgtgg tgatgacgta ggacatgtg ttgtacaaa aagggctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin D2 Receptor	ct MADSCRNLTY VRGSGVPATS TLMFVAGVVG NGLALGILSA RRPARSFAA VLVTGLAATD P LLGTSFLSPA VFVAYARNSS LLGLARGGPA LCDAFAMT FFLASMLIL FAMAVERCLA LSHPYLYAQL DGPRCARLAL PAIYAFVLF CALPLILGQ HQYCGSWC FLRMWAQPG GAFLSLAYAG LVALIVAAIF LCNGSVTLSL CRMYRQRRH QGSLGPRPT GEDEVHLIL LALMTVMVAV CSLPLTRCF TQAVAPDSS EMGDLLAFRF YAFNPILDPW VFILFRKAVF QRLKLVCCCL CLGPAHGDSD TPLSQLASGR RDRAPSA PV GKEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgcaact ctatgcgatg caccggcggc tgcagcgca A cccgctctc tgcaccaggg actgtgcga gccgcgcgc gacgggaggg aagcgtcccc tcagccctg gaggagctgg atcacctct gctgctggcg ctgatgaccg tgccttcac tatgtgtct ctgcccgtaa tttatcgcc tttactatga gcatthaagg atgtcaagg gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgattc tatctgtgat ttcaattgtg gaccttggg tttttatcat tttcagatct ccagtatctt gatatattt tcacaagatt ttcattagac ctcttagta caggagccgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gtttttcaat ctgtggtgaag ctgaggaata tgtcacattt tcagtcaaa aacca MKSPFYRCQN TTSVEKGNKA VMGGVLFSTG LLGNLLALGL LARSGLGWS RRLRLPSV P FYMLVCGITV TDLLGKCLIS PVVLAAYQN RSLRLAPAL DNSLQAFAP FMSFFGLSST LQLLMALEEC WLSLGHFFY RRHITRLGA LVAPVSAFS LAFALPFMG FGKVFQYCPG TWCFIQMVHE EGSLSVLGYS VLYSSLMALL VLATVLCNLG AMRNLYAMHR RLQRHPRST RDCAEPRADG REASPQPLEE LDHLLLLALM TVLFTMCSLP VIYRAYGAF KDVKEKNRTS EEAEDLRALR FLVISIVDP WIFIIFRSPV FRIFHKIFI RPLRYSRCS NSTNMESL	Homo sapiens
287	3923	Prostaglandin D2 Receptor		Homo sapiens

288	3924	Prostaglandin E Receptor EP1	NM_000955	<p> gggggaggca gggctgagcg gccggtgatg gggaacccac atcccaggca gtgccggcac ccctggcgcc tgacatgagc ccttgcgggc cctcaacact gagctggcg ggcaggcgca ccacatgcgc ggcgcccctgg gtcccacaac cgtcggccgt gccgcccgtc ggcgcttcgc ccgcgctgcc catcttctcc atgacgtgg gcgcgctgtc caacctgtcg gcgtggcgcc tgctggcgca ggcgcgggc cgcctgcgac ggcgcacgtc ggcaacacc ttctgtctgt tcgtggccag cctgctggcc accgacctgg cgggcaactg gacccgggc cgcgtggctg tgctctgta cactgcgggg ccgctcccg ccggcggggc atcccacttc ctggcgggct gcatggtctt cttcgccctg tgcgctgc tgcctgctg tggeatggcc gtggagcgct gcgtggcggt caccggccg cgtctccacg ccgcgcggt ctcgctggcc cgcgcgcgc tgccgctggc ccggtggcc gcgtggcct tggcgtggc gctgctggc ctcgcgcgcc tgggccgcta tgagctgcag taccgggca cgtgtgctt catcgccctg ggtcccccgg ggcgtggcg ccaggcaactg cttgctggcc tcttcgccag cctcgccctg gtcgcgtcc tcgcgctgct ggttgcaac accctacg gcctggccct gcctggcc cgcgtggcgac gcgctccc accgctccc ccgctcag gcccgacag ccgctgcgc tggggggcgc accgaccccg ctcgctccc gcctgctcc cctcgtccat cgtctggcc tccacctct ttggcgctc tcggagcagc ggcctggcac gcagagctcg cgcacacgac gtggagatgg tgggccagct tgcggtatc atgtgtgtgt cgtgcatctg ctggagccca atgctgtgt tggtggcgt gccgctggc ggcgtgagct ctacctcct gcagcgccca ctgttctctg ccgtgcgct tgcctcctg aaccagatcc tggaccttg ggtgtacatc ctactggcc agccgctgt gcgcaactg cctcgcctt tgcctccgag ggccggagcc aaggcgcc ccgcgggct ggccataca ccgagcct ccgagcgcc ctcgctgcgc agtcccgcgc acagcgccct cagccactc taagcaaac cagagggcca acgactaagc cagccaccc tggtgggc ccaggtgcgc ggcgagagc ctttgggaat aaaaagccat tctgcg </p>	Homo sapiens
289	3924	Prostaglandin E Receptor EP1	NP_000946.1	<p> MSPGCPNLN LAGEATCAA PWPNNTSAVP PSGASPALPI FSMTPGAVSN LLALALLAQA P AGRLRRRSA TTFLLFVASL LATDLAGHVI PGLVLRILYT AGRAPAGGAC HFLGGCMVFF GLCPILLGCG MAVERCVGVT RPLLHAARVS VARARLALAA VAAVALAVAL LPLARVGRYE LQYPTWCFFI GLPFGGWRQ ALLAGLEASL GLVALLAALV CNTLSGLALH RARWRRSR PPASGPDNR RMGAHGPRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVGQIV GIMVVCICW SPMLVLVALA VGGWSSTSLQ RPLFLAVRIA SWNQILDPMV YILLRQAVLR QLRLPPRA GAKGGPAGLG LTPSAWEASS LRSSRHSGLS HF </p>	Homo sapiens
290	3925	Prostaglandin E Receptor EP2	NM_000956	<p> gggcccgcgt cggcgcgctg ggtgcgggaa gggggtctctg gatttcggtc cctcccttt A ttctctgag tctcgaaacg ctcagctct cagacctct tcctcccagg taaaggcccg gagaggagg cgcactctt ttccaggcac ccacacatgg gcaatgcctc caatgactcc cagctgagg actgcagac gcgacagtgg cttcccacg gcgaaagcc agccatcagc tcgtcatgt tctcgcccg ggtgctggg aaactcatag cactggcgt cctggcgccg cgctggcggg ggcacgtgg gtgcagcgc ggcccgagga cctccctctc ctgttccac gtgctggtga ccgagctgt gtccaccgac ctgctcgga cctgcctcat cagccagtg gtactggctt cgtacgcgcg gaaccagacc ctggtggcac tggcgccca gaccccgcg tgacactact tgccttcgc catgacctc ttacgacctg ccacgatgt catgctctc gccatggccc tggagcgcta cctctcgatc gggcaccctt acttctacca gcgcgcgc tcggcctccg ggggctggc cgtgctgct gcatctatg cagtctcct cgtctctgc </p>	Homo sapiens

291	3925	Prostaglandin E2 Receptor EP2	NP_000947.1	<p> tgctgccgc tgcggagacta tggcgagtag gtccagtagt gccccggag ctggtgcttc atccggcacg ggcggaccgc ttacgtgcag ctgtacgcca cctgtctgct gcttctcatt gtctcgggtc tgcctgcaa ctteagtgct atttcaacc tcatecgcat gcacgcgcga agccggagaa gccgtgcggg acctccctg ggcagtggcc gggcgggccc cctggctatc aggagagggg aaagggtgct catggcgag gagacgacc acctcattct cctggctatc atgaccatca ccttcgccgt ctgctccttg ccttccgca ttttgcata tatgaatgaa acctcttccc gaaaggaaa atgggacctc caagcttcta ggttttatac aattaattca ataattgacc cttgggtctt tgccatcctt aggcctctg tctgagact aatgcgttca gtcctctgtt tgcggatttc attaagaaca caagatgcaa cacaaacttc ctgttctaca cagtcagatg ccagtaaca ggctgacctt tgaggtcagt agttttaaag ttcttagtta tatagcatct ggaagatcat ttgaaattg ttccctggag aatgaaaaac agtgtgtaaa caaatgaag ctgccctaata aaaaaggagt atacaaacat ttaagctgtg gtcaaggcta cagatgtgct gacaaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtacttggcc ttggaggaa caatcgctg cattgaagat ccagctgctt attgatttaa gcttctctgt tgaatgacaa agtatgtgtt ttgttaattt gtttgaacc ccaaacagtg actgtacttt ctattttaat ctgttacta ccgttatata catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaaatag tggaagcaac caagcctgct gtcttctgat cacttagcga acctttatt tgaacaatga agttgaaaaat cataggcacc ttttactgtg atgttctgt atgtggagt actctcatca ctacagtatt actcttaca gagtggactc agtgggttaa catcagtttt gtttactcat cctccaggaa ctgcaggtca agtgtcagg ttatttattt tataatgttc atgtctaat agtgatcaag aagactttag gaatgttct ctcaacaaga aataatgaa atgtctcaag gcagttaatt ctcattaata ctcttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc caaatattag gcttaaaaac tgaaaaatct ggttcattct tcagataac tggaacctt ttaaagttga tattggggcc atgagtaaaa tagattttat aagatgactg tgtgtacca aaattcatct gtctatattt tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataa ttctaaaatg ttggcatgt aatgtaaaac tcagcatcaa aatatttcag tgaatttga ctgtttaatc atagtactg tgtaaaactca tctgaaatgt tacaaaaata aactataaaa ca </p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p> MFSAGVTLGNL IALALLARRW RGDVGCsAGR P RSSLSLFHVLT VTELFTDILL GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFES LATMLMLFAM ALERYLSIGH PFYQRRVSA SGLLAVLPVI YAVSLLFCSL PLDDYQYVQ YCPGTWCFIR HGRTAYLQLY ATLLLLIVS VLACNFSVIL NLIRHRRSR RSRGSPSLGS GRGGPGARRR GERVSMAEET DHLILLAINT ITFAVCSLPF TIFAYMNETS SRKEKWDLQA LRFLSINSII DPWFALLRP FVLRLMRSLV CCRISLRTQD ATQTSCTQS DASKQADL </p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	<p> accagaggtt tccagagag gaaggcgtgg ctccctcccg ggcagtagg ccctggcgcc A gcccgccg cggctcccagc agcggagtag ggcggcggtc gcgccccga ccatggggg cagccccagcc ccagccggg taaacgcgga cctccgcgcg cgcgcgcgc gcgtctgccc </p>	Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	ac	cctcccgctg cggtctctctg gacgccatcc cctcctcacc tcgaagccaa catgaaggag acccggggct acggagggga tgcccccttc tgacccgcc tcaaccactc ctacacaggc atgtgggag cagagcgctc cgccgagcg cggggcaacc tcacggccc tccagggtct ggcaggatt gcgagcggt gtcgctggcc ttcccgatca ccatgctgct cactggttcc gtgggcaacg cactggccat gctgctcgtg gtcgctcgt tcacggacc ggtcgggag cgcaagaagt ccttcctgct gtcgctcgtg tacctgtcca agcagcgttg ggagcacatc ctctcacc ccccgctcgt cactttttc ggctgacca tgactgtttt cgggtctctcc gacccgtcgg ggcgctctg cactttttc ggctgacca tgactgtttt cgggtctctcc tcgttgttca tcgccagcgc catggcgcgc gagcgggagc tggccatcag ggcggcgac tggtatgca gccacatgaa gacgctgccc acccgcgctg tgctgctcgg cgtgtggctg gccgtgctg ccttcgctc gctgcgctg ctagcgtg cgagtgctg gccagtcac cgtccagtgg cccggaact ggtgcttcat cagcacccgg cgaggggca acggactag ctcttcgcat aactggggca accttttctt cgcctctgcc ttgctctcc tggggtctt ggcgtgaca gtcaccttt cctgcaact ggcacactt aggcctctg tgcctcgtg cggggccaa gccacggcat ctcagtcag tgccagctg ggcgcgac cgacgagac ggcattcag cttatggga tcatgtcgt gctgctgctc tgctgtctc cgtcctgat aatgatgtg aaatgatct tcaatcagac atcagttgag cactgcaaga cacacagga gaagcagaaa gaatgcaact tcttctaat agctgttcg ctagcctcag tgaaccagat ctgtgctct tggtttacc tgctgttaag aaagatcctt cttcgaaagt ttggccagat gaaaaaga agactcagag agcaagagat gggcctgat ggaagtgtt ttgtcatgc atggaggcag gtcccgagg cttggtgag ttctcatgat agagaaacct gtagtgcca gctaagctga tgacttgaag ataaatcgc ctaacccctg gatgaagtat ctgtgaacta tttgacagc agataggaa ttttgggaa attaaaacct gcctttctgc caggtacaca tcactggaag ctccatgact cttcttttgt aaaaagaaa aaaaacacag aaacccac ctccaaact attctctttt acttctccc ccaagccac ccccaaat aactgttat cagaagctgt tatgtcctgt ttccatcat gttttgtac ttttactata tctacatca tcaattaaac ttatgtccta ttgttttgt aatttatatt tgcgtatata ttatcatatg taaaatttgc atttttttat tgaataatt gtttcttgag attatccac attgaaacat ggagctctaa atcgtttaatt ttaaccgcta tagagtattc cataatttga ataaagcata attgtttgt ac	Homo sapiens
295	3927	Prostaglandin E Receptor EP4	NM_000958		cggcagacc tcacactga acgctgtct cccgcagac agaccggcg gcactgcaa A gctgggactc gcttttgaag gaaaaaaat agcagtaga aatccagca ccattcttca ctgacccatc ccgctgcacc tctgtttcc caagttttg aaagctggca actctgacct cgggtgtccaa aaatcgacag ccaactgagac cggcttttgg aagccgaaga ttbgcagtt	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	<p> tccagactga gcaggacaag gtgaaagcag gttgaggcg ggtccaggac atctgagggc tgacctggg ggctcgtgag gctgccaccg ctgctgcgc tacagacca gcttgcaact ccaaggctgc gcaccgccag ccaactatcat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccgctga acagccaggt gacctccc gcggtgatgt tcatcttcgg ggtggtggc aacctgtgg ccatcgtggt gctgtgcaag tcgcaagg agcagaagga gacgaccttc tacacgtgg tatgtgggt ggctgtcacc gacctgtgg gcaatttgtt ggtgagcccc gtgacctcg ccacgtacat gacgtgctt ctcgccccgg gcaagccgt gtcgagtagt agcacttca ttctgtctt cttcagctcg tccggcctca gccatcatctg cgccatgagt gtcgagcgt acctggccat caacctgcc tatttctaca gccactacgt ggacaagcga ttggcgggcc tcacgtctt tgacgtctat gcgtccaaag tgctctttt cgctgccc aacatgggtc tcggtagctc gcggtgcag taccagaca cctggtgctt catcagctgg accaccaacg tgacggcga cgcgcctac tctacatgt acgcggtt cagctcttc ctcatctcg ccaccgtct ctgcaacgtg cttgtgtcg gcgctgct ccgcatgcac cgccagttca tgcgcgcac ctgcgtggc accgagcgc accacgcgc cgcgccgccc tcggtgctt cccggggcca cccgctgc tccccagct tgcgcgct cagcagctt cgcgccgccc ggagcttcg ccgcatcgc ggcgcgaga tccagatggt catcttactc attgccact cctggtggt gctcatctg tccatccgc tctggtgctg agtattcgtc aacctgtat atcagccaag ttgagcga gaagtcagta aaatccaga tttgcaggcc atccgaattg cttctgtga cccatctca gacctgga tatatactt cctgagaaag acagtgtca gtaagcaat agagaagatc aaatgctct tctgcgcgt tgccatgtcc cgacgtcgc gctccggaca cctccgtcat ctaaggaga tgacatctt atctcagacc ctccgccc acctcact ccacgtcgc ggcagacct agtgaagag ccttgagg caggaattg ctccagtg tgccgtgcat ggccctggc caggaagaca ccactcact gaggacttg cgaatcag agacctcaga ctcttcacag ggtcaggact cagagatgt cttactggtg gatgagctg gtggagcgg caggcgtgg cctgccccct agggagctc cctgcaagtc acatttcca gtgaaacact gaacttatca gaaaatgta tataataggc aaggaagaa atacagtact gttctggac cttataaaa tctgtgcaa tagacacata catgtcacat ttagctgtg tcagaaggc tatcatca LAVTDLLGTL LVSPVTIATY MKGQWPGQP VTIPAVMFIF GWVGNLVAIV VLCKSRKEQK ETTFYTLVCG P INHAYFYSHY VDKRLAGTL FAVYASNVLF CALPNMGLGS SRLQYPTWC FIDWTTNVT A HAAYSYMYAG FSEFLILATV LCNVLVCGAL LRMHQFMRR TSLGTEQHA AAAASVASRG HPAASPALPR LSDFRRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLV RVFWNLQYQP SLEREVSKNP DLQAIRIASV NPILDPIYI LLRKTLVLSKA IEKIKLFCR IGGSRRRSG QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLPLDLS LPDLENGLG GRNLLPGVPG MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SIQVTFPSET LNLSEKCI </p>	Homo sapiens
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	<p> ggcgcgggc gccatggcac accgagcgc tccgtcttct gctcctcaga gagcccgct A ggcgccctgg gatgacaaga tgtctggact gcaatcctgc acagttttga gagggagatg acttgagtggt ttggctttta tctccacaac aatgtcccatg aacaattcca aacagctagt </p>	Homo sapiens

gtctcctgca gctgggcttc ttccaacac aacctgccag acggaaaacc ggctttccgt
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tattataaca attaactagg agatcaagag ataataatct ctccccaat tttccaataa
taattgagac ttttcttttg ctgtttgtg taattcaacc aaagaattt caataccat
tcaaatgtc ctaggctat cagaaattag ggaaggtagt cctgttttat aataggaaaa
tgtatttctg tataagattt ctttgccttc attaaaaatg ggattcattt aaaaattaat
cttccctgt taggctgatt tcagattctc taggaattct ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNSKQLV SPAALLSNT TCQENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRF RQ P	gagctgctgtggt
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Receptor 2	4052	Proteinase- Activated Receptor 3	NM_004101	<p>DLLSVIWFPL KIAHYHANN WIYGEALCNV LIGFFYGNMY CSILFMTCLS VQRYWVIVNP MGHSRRKANI AIGISLAIWL LILLVTIPLY VVKQTFIPA LNITTCNDVL PEQLLVGMF NYFLSLAIGV FLFPAFLTAS AYVLMIRMLR SSAMDENSEK KKRRAIKLIV TVLAMYLICF TPSNLLLVVH YFLIKSQQS HVYALYIVAL CLSTLNSCID PFVYFYVSHD FRDHAKNALL CRSVRTVKQM QVSLTSKKHS RKSSSYSSSS TTVKTSY</p> <p>ctgacctgca cggcacagga gagcaactt ctacagacag accaaggctt ccatttgctg A ctgacacatg gaactgaggt gaaattgtgc tccatgattt tacagatttc ataacgttta agagacggga ctcaggtcat gaaatgaaa gcccctcatct ttgcagctgc tggcctccctg ctctgttgc ccacttttg tcagagtggc atggaatg atacaacaa attctttga agagtcccc cacaacctac ccattaagac cttctgtgga gctccccaa gctccccaa agagtcccc ttttctgctt tggaaggctg gacaggagcc acgattactg taaaaattaa gtgccccgaa gaaagtgtct cacatctcca tgtgaaaaat gctaccatgg ggtacctgac cagctcccta agtactaaac tgatactgc catctacctc ctggtgttgg tagttgtgt cccggccaat gctgtgaccc tgtggtgct tttcttcagg accagatcca tctgtaccac tgtattctac accaacctgg ccattgcaga ttttcttttt tgtgttacct tgccttttaa gatagcttat catctcaatg ggaacaactg ggtatttggga gaggtcctgt gccggggccac cacagtcac ttctatggca acatgtactg ctccattctg ctccctgctt gcatcagcat caaccgtac ctggccatcg tccatccttt cactacccg ggcctgccc agcacaccta tgccttggt acatgtggac tgggtgtggc aacagtcttct ttatatatgc tgccattttt catactgaag caggaatatt atctgttca gccagacatc accactgccc atgatgttca caacacttgc gagtcctcat ctcccttcca actctattac ttcactcctc tggcattttt tggattctta attccatttg tgccttatcat ctactgctat gcagccatca tccggacact taatgcatac gatcatagat ggtgtgtgta tgttaaggcg agtctcctca tccttgtgat tttaccatt tgcttggctc caagcaatat tattcttatt attcaccatg ctaactacta ctacaacaa actgatggct tatattttat atatctcata gcttctgtgc tgggtagtct taatagtgtc ttagatccat tcctttattt tctcatgtca aaaaaccagaa atcactccac tgcttacctt acaaaatagt gaaatgatct tagagaacaa ggacagccat cacagagaac gtctgttttc aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgcttc aaaggtcaaa cattacaaa gcttagtag tttgtttgtt tgtttttgag actgagtctc actttatcac ccagactggc gtgagtggtc actatcttgg ctcattgcaa cctctgcctc ccaggtcagc ctcccaagta gctgggatta caccacctg cccagctact aaaaactt gtatttttag tagagacggg gtttcacct gttgaccagg ctggtcttga actcctgacc tcaagtgatc ttccggcctc agctcccaaa agtgcctgat tacaggcgtg agccactgag ccagccagca ttagtaattt ttaaaaacac ttatcagta ttttaaaat gttaatgcag gagaaaagat atcaaacctc tatggaaaaat gacatttcca tttgccttat tgctacttca agctctttaa atcaccatct tccctatttc</p>	Homo sapiens
Receptor 3	4052	Proteinase- Activated Receptor 3	NP_004092.1	<p>MKALIFAAAG LLLLPFTCQ SGMENDTNL AKPTLPKTF RGAPPNSFEE PFPSALEGWT P GATITVKIC PEESASHLV KNATMGYLTSLSTKLIPAI YLLFVVGVP ANAVTLWMLF FRTRSICTV FYTNLAIDF LFCVTLPEKI AYHLNGNWW FGEVLCRAFT VIFYGNMYCS ILLACISIN RYLAIVHPT YRGLPKHTYA LVTCGLVWAT VFYMLPFFI LKQEYLVQRP DITTCNDVHN TCESSSPFQL YYFISLAFFG FLIPFVLIY CYAAIIRTLN AYDRWLWYV</p>	Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI I LIIHHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cgggaggaga tcacctgctg cccgcagac ccctgtccct tcctcccgga A ccagcagcta gaggatgtcc aaacggagtt ggtgggctgg atccagaaa cccccaagag agatgctgaa actctcaggc tctgactcca gccaaagcat gaatggcctt gaagtggctc ccccaggctt gatcacaac ttctccctgg ccaacggaga gcaatgtggc caggagacgc cactggagaa catgctgttc gctctcttct accttcttga ttttatctcg gcttttagttg gcaataccct ggctctgtgg cttttcatcc gagacacaa gtccgggacc cgggccaacg tgttctctgat gcatctggcc gtggccgact tgtctgtcgt gctggtcctg cccaccggcc tgtgttacca cttctctggg aaccactggc catttggga aatcgcatgc cgtctcaccg gcttctctt ctactccaac atgtacgcca gcatctactt cctcacctgc atcagcgccg accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg cacacctggc cgtgtccctc ctgtgggtgg tgggtggctgt ggccatggcc ccgctgctgg tgagcccaaca gaccgtgcag accaaacaca cgggtgctg cctcagctg tacccgggaga aggctccca ccatgcccctg gtgtccctgg cagtggcctt caccttccc ttcatacca cgttcaacctg ctacctgctg atcatccgca gccctgggca gggcctgcgt gtggagaagc gctcaagac caaggcagtg cgcagatcg ccatagtgtt ggcatacttc ctggtctgct tcgtgcccta ccactcaac cgtccgtct acgtgctgca ctaccgcag catggggcct cctgcgccac ccagcgcatc ctggccctgg caaacgcat cacctctgc ctccacagcc tcaacggggc actcgacccc atcatgtatt tctctgtgc tgagaagtgc cgcacgccc tgtgcaactt gctctgtgc aaaggctca agggccgcc cccagcttc gaagggaaaa ccaacgagag ctgctgtagt gccaagtcat agctgtgagc ggggggcgcc gtccaggccg agcgagact gtttaggact cagcagaccc agcaagaggc atctgcccct tccccagcca cctccacagc aagcaacctg aaatctcagc agatgccac catttctcta gatcgccctag tctcaaccca taaaaaggaa gaactgacaa aggggatcca tcggccacc ctctgcaggg gcttgtgatg gctacaatgg ctccatagaca ctcaacgact tcatctgtgg cagggagaga ggaggccgga agaacaacc ctgaacaatg gaggccttc ttcccgcta ggtcccagc ctccttcccg ctacagaatc gctcatcggc gaggctcagc agaaagaccc tgaaggcagg ctgcaaatga cccagaaagag ggacctggga gtcctgtggg ggacggggag ggagtctcaa tactcctttg cagcgcaaag tactctgagt cccctctgta gtccctctgc cagacacaca ctgcttagt tgaagagaca caggccacac atttcagggt ggttgcagc ggacgtcagc actcaggcc tgcggggact cagcacagct ctggattctg gatctctct gctgtaacc cacgcacaag cctgcaacc cagagctct ttgacaggct ccaggccctc ccagtcctgg acaagcatgt gcagtcaagg gactcagct caggccagg ctgggctgtg cactgcctc ccactgacc agaccactt cctccagaga ggcctctc cgcctgagct atttccctg ctagtgtgca gatatttccc taacatgtcc tttttgtat ttgtttgtac ggaccataaa tataactgta gctttaagac taaaaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWAGS RKPPREMLKL SGSDSSQSMN GLEVAPPGLI TNFSLATAEQ CGQETPLENM P LEASFYLLDF ILALVGNFLA LWLFIRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF SGNHWPFGEI ACRLTGFLFY LNMYSIYFL TCISADRELA IVHPVKSLK RPLYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVFT PFTTIVTCY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	<p>LLIIRSLRQG LRVEKRLKTK AVRMIIVLA IFLVCFVPYH VNRSVYVLHY RSHGASCATQ RILALANRIT SCLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGGPP SFEGKTNESS LSAKSEL</p> <p>agagtcaccc agctggagcc ctgagtggtc gagctcaggc cttcgcagca ttcttgggtg A ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggccctaact tctacgtgcc ctctccaat ggcacgggtg tggtagcagc ccccttcagc taccacagt actacctggc tgagccatgg cagttctcca tctgggcgc ctacatgttt tgcgtgacgc tgctgggctt ccccatcaac ttcttcacgc tctacgtcac cgtccagcac aagaagctgc gcacgcctct caactacatc ctgctcaacc tagccgtggc tgacctctc atggtcctag gtggcttcac cagcacctc tacacctc tcacatggata cttcgtcttc ggcccacag gatgcaattt ggagggttc ttggccacc ttggcgggtg aattgccctg tggccttgg tggtcctggc catcgagcg tgcgtggtg tgtgaagc catgagcaac ttccgcttcg gggagaacca tgcctcatg ggcgttgct tccctgggtc cctgcagtc gctgcgcgcg caccacct cgcgggtgg tccaggtaca tccccaggg catgcagtc tctgttgaa tcgactacta cagctcaag cggaggtca acaacgagtc tttgtctc tacatgttcg tggctcactt caccatccc atgattatca tcttttctg ctatggcag ctcgtcttca ccgtcaagga ggcgctggc cagcagcagg agtcagccc cacacagaag gcagagaag aggtcacccg catggtcatc atcatggtca tgccttctc gatctgctg gtgcctacg ccagcgtggc attctacatc ttcaccacc agggctcca cctcggtccc atcttcata ccatcccagc gttctttggc aagagcgccg ccacttaca cctgtctac tatatcata tgaacaagca gtcccggaac tgcattgctca ccacctctg ctgcggcaag aaccactgg gtgacgatga ggcctctgct accgtgtcca agcggagag gagccaggtg gcccggcct aagacctgcc taggactctg tggccgacta taggcgtct ccatcccta cacttccc cagccacagc catcccacca ggagcagcg ctgtgcagaa tgaacgaagt cacataggct ccttaatttt ttttttttt ttaagaaata attaatgag ctctcactc acctggaca gcctgagaag ggacatccac caagacctac tgatctggag tcccacgtc ccaaggcca gcgggatgtg tgccctcct cctcccaact catctttcag gaacacgag attcttgcct tctggaaaag tgtccagct tagggataag tgtctagcac agaattgggc acacagtagg tgcttaataa atgctggatg gatgcaggaa ggaatggag aatgaatgg aagggagaa atatctatcc tctcagacc tgcagcagc agcaactcat acttggtctaa tgatatggag cagttgtttt tccctccctg ggcctcactt tcttctcta taaaatgaa atcccagatc cctggtcctg ccgacacgca gctactgaga agaccaaag aggtgtgtgt gtgtctatgt gtgtgtttca gcactttgta aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatgggtttt caccacaact tggggcaggt ttttaaaat tagctaggca tcaaggccag accagggtg ggggttggc tgtaggcagg gacagtcaca ggaatgcagg atgcagtcac cagacctgaa aaaaacac tgggggaggg gacggtgaa ggcacaagtc ccaatgagg tgagattggg cctggggtct caccctagt gtggggcccc aggtccctgt cctcccttc ccaatgtggc ctatggag acaggcctt ctctcagcct ctggaagcca cctgctctt tgctctagca cctgggtccc agcatctaga gcattggagcc tctagaagcc atgctcacc gccacattt aattaacagc tgagtccctg atgtcatcct</p>	Homo sapiens
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306	4254	Rhodopsin	NP_000530.1	<p>tactcgaaga gcttagaacc aaagagtgagg aaattccact gggccctacct tccttggggga</p> <p>tggtcatggg cccaggtttc cagtttccct tgccagacaa gcccatcttc agcagttgct</p> <p>agtcattctt ccattctgga gaattgctc caaaaagctg gccacatctc tgagggtgtca</p> <p>gaattaagct gcctcagtaa ctgctccccc ttctccatat aagcaagacc agaagctcta</p> <p>gctttaccca gctctgctg gagactaagg caattggggc cattaaaagc tcagctccta</p> <p>tggtgttatt aacggtggtg ggtttgtgtg ctttcacact ctatccacag gatagattga</p> <p>aactgccagc ttccacctga tccctgaccc tgggatggct ggattgagca atgagcagag</p> <p>ccaagcagca cagagtcacc tggggctaga ggtggaggag gcagtctggg gaatgggaaa</p> <p>aacccca</p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p>agagacagct gggccactgg cagtgaggga gagtggagat ggcagagacc agtgcctgc A</p> <p>ccactggctt cggggagctc gagtgctgg ctgtgggagat ggtgctactg gtggaagctc</p> <p>tctccggtct cagcctcaat accctgacca tcttctctt ctgcaagacc ccgagctgc</p> <p>ggactccctg ccactactg gtgctgagct tggctcttgc ggacagtgg atcagcctga</p> <p>atgcctctgt tgcagccaca tccagcttc tccggcgctg gccctacggc tcggacggct</p> <p>gccaggtca cggcttcag gctttgtga cagcgttgc cagcatctgc agcagtgcag</p> <p>ccatgcgat ggggcgttat caccactact gcacccgtg ccagctggcc tggaaactcag</p> <p>ccgtctctt ggtgctctt cactatgac tatgagccac tggggacatg ctgacacctg gactactcca</p> <p>tgggttgggg tcaactatgac aaacttacc agcttctct taccatgtc tcttctaac ttcgccatgc</p> <p>aggggacag aaacttacc agcttctct taccatgtc taccatgtc taccatgtc taccatgtc</p> <p>ccctcttcat cactacact tctacagtc tcatggagca gaaactggg aagagtggcc</p> <p>atctccaggt aaacacact ctgccagcaa ggacgtgct gctcggctgg ggccctatg</p> <p>ccatctgtga tctatacga gtcactgcag acgtgacttc catctcccc aaactgcaga</p> <p>tgggtccgc cctcattgcc aatgtgtgc ccacgatcaa tgccatcaac tatgccctgg</p> <p>gcaatgagat ggtctgcagg ggaatctgc agtgccttc accgcagaag agggagaagg</p> <p>accgaaccaa gtgagcctgc caccctggag tgagccccag gccaggaggc tgttccagga</p> <p>gtcctgccc cagcctcgg tggccaaagc cagacactca cccaccttc ccagtggccc</p> <p>cgtggatct ggtcctaggc tggacacagg attcagaaa acaccaggct gcacagaaag</p> <p>agccagatgg acctgagtgt cggtcacagc cccctacact caagctgag aggcctcagg</p> <p>aaagtcattc ctttttaaaa ataataata atgtaagggg gtacagtga gttttgttac</p> <p>atggatagat tgcctagtgg tgaagtctgg gcttttagtg taacctcac cctaataata</p> <p>tacgttgtac ccattaaagt atttctcat cctcaccccc tcccacctg tcaccttct</p> <p>gagtcctcaa tgtctattat tccacactcc atgtccactg gtacacatta tttagctccc</p> <p>acttacaagt gagaacatgt ggtatttgac ttcca</p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p>MAETSALPTG FGELEVLAVG MVLLVEALSG LSLNLTIFS FCKTPELRTP CHLLVLSLAL P</p> <p>ADSGISLNAL VAATSSLLRR WPGSDGCQA HGFGFVTAL ASICSSAAIA WGRYHHYCTR</p>	Homo sapiens

309	4321	Coupled Receptor RPE	NP_002980	<p>SQLAWN SAVS LVLFWLSSA FWAALPLL GW GHYDVEPLGT CCTLDYSKGD RNFTSFLFTM SFNFAMP LF ITITSYSIME QKLGSGHLQ VNTTLPARTL LLGWGPYAIL YLYAVIADVT SISPKLQMP ALIAKMPPTI NAINYALGNE MVRGIIWQCL SPQKREKDR T K acgagggccg cggagcccg ggaccctgcg cggggcgctg agctcccgag cgggcagagg A gcacgggcag cggagcgtcg gggcgccctc ggggaacgtg cgggaacat gcgtccccac ctgtcgccgc cgtgcagca gctactactg cgggtgctgc tcgctgcgc cgcgcactcg actggagccc ttcccgact atgtgacgtg ctacaagtgc tgtgggaaga gcaagaccag tgcctgcagg aactctccag agagcagaca ggagacctgg gcacggagca gccagtggca ggttgtagg ggttgtagg caacataagc tgcctgcctt ctctgtgccc gggccggatg gtggaggtgg aatgcccgag attcctccgg atgctacca gcagaaatgg ttccctgttc cgaaactgca cacagatgg ctggtcagaa accttcccc ggcctaattc ggcctgtggc gttaatgtga acgactcttc caacgagaag cggcactcct acctgtgaa gctgaaagtc atgtacaccg tgggtacag ctctccctg gtcattgtcc tggtcgccc tggcatcctc tgtctttcc ggagctcca ctgcactgc aactacatcc acatgcact gtctgtgtcc ttcatccttc gtgcctgtc caacttcac aaggacgcg tgcctcttc ctcatgatg gtcaactact gcatccgca caggcgggc tgcaagctgg tcatgtgtc gtccagatc tgcatcatgg ccaactact ctggtgtgtg gtggaaggcc ttacactca cacactctc gccatctctt tcttcttga aagaaagtac ctccaggat ttgtggcatt cggatggggt tctccagcca ttttgttgc tttgtggct atgtccagac acttcttga agatgtgtg tgtgggaca tcaatgccaa cgtccatc tgggtgatca ttcgtgtcc tgtgatcctc tccatcctga ttaatttcac cctttcata aacattctaa gaactctgat gaaaaactt agaacccaag aaacaagagg aatgaagtc agccattata agcgctgtgc caggtccact ctctgtgta tcccctctt tggcatccac tacatgtct tcgctcttc cccagaggac gctatggaga tccagctgtt tttgaaacta gcccttggtt cattccaggg actggtgtg gccgtcctt actgcttct caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagt cccactgac cccgtggct ccttcagcaa cagcaccag gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcagggtcac ccacggacag agaccaagag aggtctcg aggtctggc actgctgtg gacagccagt ctccccagca gacacctgt gtcctcttc agctgaagat gccctcccc agcccttga ctctccgaa gggatgtg gactgtgg gcaggacaa ggcctggat ttggttcgtt tgcctcttg ggaagagaag ttcagggggt ccagaaaagg acagggaat aaatgggtcc tgggatgaga ttc</p>	Homo sapiens
310	4321	Secretin Receptor	NP_002971.1	<p>MRPHSPPLQ QLLPLVLAC AAHSTGALPR LCDVLQVWE EQDQCLQELS REQTGDLGTE P QVPGCEGMW DNISCEWSSV PGRMVEVECP RFLRMLTNRN GSLEFNCTQD GWSEFPRPN LACGVNVD SNEKRHSYLL KLKVMYTVCP SSSLVMLVA LGILCAFRRL HCTRYIHMH LFVSFIIRAL SNFIKDAVLF SSDDVTYCDP HRAGCKLVMV LFQYCIMANY SWLLVEGLYL HTLLAISFFS ERKYLOQFVA FGWGSPIFV ALMAIARHEL EDVGCWDINA NASIWWIIRG PVILSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLLIPL FGIHYIVFAF SPEDAMEIQL FFELALGSFQ GLVAVLYCF LNGEVQLEVQ KKQQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCRTSII</p>	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgttcccca atggcaccgc ctctctctct tctctctctc ctagecccaag cccgggcagc A tgcggcgaag gcggcgccag caggggcccc ggggccggcg ctgcggacgg catggagagag ccaggcgcaa atgcgtccca gaacgggacc ttgagcagg ggcaggcag cggcatcctg atctctttca tctactccgt ggtgtgctg gtggggctgt gtgggaactc tatgggtcatc tacgtgatcc tgcgtatgc caagatgaag acggcaccac acatcacat cctaaatctg gccattgctg atgagtgtct catgtcagc gtgcctctcc tagtcacctc cacgttgggtg cgccactggc ccttcggtgc gctgctctgc cgccctctgc tcagcgtgga cgcgggtcaac atgttcacca gcattactg tctgactgtg ctacagctgg accgctacgt gcccggtggtg catcccatca aggcggcccc ctaccgcccgg cccaccgtgg ccaaggtagt aaacctgggc gtgtgggtgc tatcgtgct cgtcactctg cccatcgtgg tcttctctcg caccgcggcc aacaggacg gcacggtggc ttgcaacatg ctcatgccag agcccgctca acgctggctg gtgggcttcg tgtgtacac atttctcatg ggcttctcgc tgcccgtggg ggctatctgc ctgtgctacg tgctcatcat tgctaagatg cgcattggtg ccctcaaggc cggctggcag cagcgaagc gctcggagcg caagatcacc ttaatgtgta tgatggtgtt gatggtgttt gtcatctgct gtagtccctt ctacgtgtg cagctgggtta acgtgtttgc tgagcaggac gacgccacgg tgagtcagct gtcggtcatc ctcggtctatg ccaacagctg cgccaacccc atcctctatg gcttctctc agacaacttc aagcgtctt tccaacgcat cctatgcctc agctggatgg acaacggcg gcaggagcgg gttgactatt agccaccgc gctcaagagc cgtgcctaca gtgtggaaga cttccaaact gagaacctgg agtcggcg cgtcttccgt aatggcaact gcactgcgg gatacagcg ctctga	Homo sapiens
312	4480	Somatostatin NP_001040.1 Receptor Type 1	ISFIYSVVCL VGLCGSNWVI YVILRYAKMK TATNIYILNL AIADELLMLS VPFLVTSTLL P RHWPFGALLC RLVLSDAVN MFTSIYCLTV LSVDRYAVV HPIKAARYRR PTVAKVNLG VWVLSLLVIL PIVFSRTAA NSDGTVACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIIAKM RMVALKAGWQ QRKRSEKIT LMVMVMVMVF VICWMPFYV QLVNVFAEQD DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSFQRILCL SWMDNAAEEP VDYATALKS RAYSVEDFQP ENLESGGVFR NGTCTSRIT L	Homo sapiens
313	4481	Somatostatin NM_001050 Receptor Type 2	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtggtgtc aaccaacacc ttaaaccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtggtct ccatcattgg gttgtgtggc aacacacttg tcatttatgt cactctcgc tatgccaaga tgaagacct caccacactt tacatctca acctggccat cgcagatgag ctcttcatgc tgggtctgccc tttcttggct atgcagggtg ctctggtcca ctggccctt ggcaaggcca ttgcccgggt ggtcatgact gtgtaggca tcaatcagtt caccagcatc tctgcctga cagtcatgag catcgaccga tacctggctg tggtcaccc catcaagtgc gccaagtga ggagacccc gacggccaag atgatcaca tggctgtgtg gggagtctct ctgctggtca tcttgcccat catgatatat gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaactg gccaggtgaa tctggggctt ggtacacagg gttcatcatc tacacttca tctgggggtt cctgggtacc ctcaccatca tctgtctttg ctacctgttc attatcatca aggtgaagtc ccttgggaatc cgagtgggct cctctaagag gaagaagtct gagaagaagg tcacccgaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt cccttctaca tattcaact tcttccgtc	Homo sapiens

314 4481 Somatostatin NP_001041.1
 Receptor Type 2 Homo sapiens

tccatggcca tcagcccccac ccagccctt aaagcatgt ttgactttgt ggtggtcctc
 acctatgcta acagctgtgc caacctatc ctatagcct tcttgcttga caacttcaag
 aagagcttcc agaattgctt ctgcttggtc aaggtgagcg gcacagatga tggggagcgg
 agtgacagta agcaggacaa atcccggtcg aatgagacca cggagaccca gaggaccctc
 ctaaatggag acctcaaac cagtacttga
 MDMADEPLNG SHTWLSIPFD LINGSVSTNT SNQTEPYDYL TSNVLTFIY FVCIIGJCG P
 NTLIVYVILR YAKMTITNI YILNLAIAD E LFMGLPFLA MQVALVHWPF GKAIQVVMVT
 VDGINQFTSI FCLTWSIDR YLAVVHIKS AKWRRPTAK MITMAVMGVS LLVILPIMIY
 AGLRSNQWR SSTINWPGE SGAWYTGFI YTFILGFLV LTIICLCYLF IIRKVKSSGI
 RVGSSKRKKS EKKVTRMVIS VVAVFIECWL PFYIFNVSSV SMAISPTPAL KGMFDFVVVL
 TYANSCANPI LYAFSLDNFK KSFQNVLCV KVSGETDDGER SDSKQDKSRL NETTETQRTL
 LNGDLQTSI

315 4482 Somatostatin NM_001051
 Receptor Type 3 Homo sapiens

atggacatgc ttcatccatc atcggtgtcc acgacctcag aacctgagaa tgcctcctcg A
 gctgggcccc cagatgccac cctgggcaac gtgtcgcggtg gcccaagccc ggcagggctg
 gccgtcagtg ggttctgat cccccctggtc tacctgggtg tgtgctggtt ggcctgctg
 ggtaaactcg tggatcatc tgtggtcctg cggcaacagg ccagcccttc agtaccacac
 gtctacatcc taaacctggc gctggccgac gagctcttca tgtgggggct gcccttctcg
 gccgcccaga acgacctgtc ctactggccc ttgggtcccc tcatgtgccg cctggtcatg
 gcggtggatg gcatcaacca gtccaccagc atattctgcc tgaactgtcat gagcgtggac
 cgctacctgg ccgtgggtaca tcccaccgc tggcccgctt cggcaccagc tccggtggcc
 cgcaaggta cgcggtgtgt gtgggtggcc tcagccgtgg tgggtgcccc cgtggtggtc
 ttctcgggag tgcgcccgcg catgagcacc tgcacatgc agtggcccca gccggcggtg
 gcctggcgag ccggcttcat catctacacg gccgcactgg gcttctcgg gccgctcgtg
 gtcatctgcc tctgtacct gctcatgtg gtgaaggtgc gctcagctgg gcgcccgtg
 tgggcacct cgtgccagcg gcgccggcg tccgaacgca ggtcacgcg catggtggtg
 gccgtggtg cgctctctgt gctctgtgg atgcccctt acgtgctcaa catcgtcaac
 gtggtgtgcc cactgccga ggagcctgcc ttctttggc tctacttct ggtggtggcg
 ctgcccctatg ccaacagctg tgccaacccc atcctttatg gcttctctc ctaccgttc
 aagcagggtt tccgcagggt cctgctcgg ccctcccgc gtgtgcgag ccaggagccc
 actgtggggc cccgggagaa gactgagag gaggatgag agggagagga tggggaggag
 agcaggagg ggggcaagg gaggagatg aacggccggg tcagccagat cagcagcct
 ggcaccagcg ggcaggagcg gccgccagc agagtggcca gcaaggagca gcagctccta
 ccccaagagg cttccactgg ggagaagtcc agcacatgc gcatcagcta cctgtag
 MDMLHPSSVS TTSEPNASS AWPPDITGN VSAGSPSAGL AVSGVLIPLV YLVCVVGLL P
 GNSLVIVVVL RHTASPSVTN VYILNLALAD E LFMGLPFL AQNALSYWP FGSIMCRLVM
 AVDGINQFTS IFCLTVMSVD RYLAVVHETR SARWRTAPVA RTVSAVWVA SAVVLPVVV
 FSGVPRGMST CHMQWPEPAA AWRAGFIYT AALGFFGLL VICLCYLLIV VKVRSAGRRV
 WAPSCQRRRR SERRVTRMV AVVALFVLCW MPFYVLNVN VVCPLEPEA FFLYFLVVA
 LPYANSCANP ILYGFLSYRF KQGFRRVLLR PSRRVRSQEP TVGPPEKTEE EDEEEEDGE
 SREGGKGEM NGRVSQITQP GTSGQERPPS RVASKEQQLL PQEASTGKES STMTRISYL

316 4482 Somatostatin NP_001042.1
 Receptor Type 3 Homo sapiens

317	4483	Somatostatin Receptor Type 4	NM_001052	atgagcgccc cctcgacgt gccccggg ggcgaggaag ggctggggac ggctggggc A tctgagcca atgcagtag cgtccggcg gagcgagg gagcgggc sapiens gacgcgggg cgcgggcat ggtcgatc cagtcatc acgcgtggt gtgcctggtg ggctggttg gcaagccct ggtcatctc gtgatectc gctacgcca gatgaagag gctaccacca tctactgt caactggc gtagcgag agcttctcat gctgagcgtg cctctgttg cctctggcg cgcctggcg cactggccct tggctccgt gctgtcccg gggtgctca cgtcgacgg cctcaacatg ttaccacgg tcttctgtt caccgtgctc agcgtggacc gctacgtgg cgtgggtgac cctctggcg cgcgaccta cggcgggc agcgtggcca agtcatcaa cctgggcgtg tggctggcat cctgttgggt cactctccc atcgcatct tgcagacac cagacgggt cggcgggc aggcgtggc ctgcaacctg cagtggccac acccgccgtg gtccgagtc ttctgtgtt acatttctt gctgggcttc ctgtgcccg tgtggccat tggcctgtg tacctgtca tctgtggcaa gatgcggc gtgcccctg cgtgtggctg gcagcggcg agcgctgg agaagaaat caccagctg gtgctgatg tctgtgtctg ctttggctg tctgtgtg agctgtgtg ggtcagctg ctgaacctg tctgtaccag ccttgatgc accgtcaac cgtgtccct tatcctcagc tatgcaaca gctggccaa cctattctc tatggcttc tctccgcaa ctccgcga tcttccagc ggttctctg cctgcgtgc tgcctcctg aggtgtgtg aggtgtgag gaggagccc tggactacta tggcactgt ctcaagaca aggtggggc aggtgcatg tgccccccac taaatgcca gcaggaaacc ctgcaaccag aaccggcg caagcgcat ccctcacca ggaaccacc ctttga	Homo sapiens
318	4483	Somatostatin Receptor Type 4	NP_001043.1	MSAPSLPPG GEEGLTAMP SAANASAPA EAEAVAGPG DARAAGMAI QCIYALVCLV P GLVGNALVIF VILRYAMKT ATTIIYLNLVA VADEFMLSV PFVASSAALR HWPFGSVLCR AVLSVDGLNM FTSVCLTVL SVDRYAVVH FLRAATYRRP SVAKLINLGW WLASLLVTLTLP IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMR VALRAGWQQR RRSEKITRL VLMVVVFEVL CWMFFYVVL LNLVVTSLDA TVNHVSLILS YANSCANPIL YGFLSDNFRF SFQRLCLRC CLLEGAGGAE EEPLDYATA LKSKGGAGCM CPPLKQOEALQPEGRKRI PLTRTTTF	Homo sapiens
319	4484	Somatostatin Receptor Type 5	NM_001053	atggagccc tgttccagc ctccacgcc agctggaacg cctcctccc gggggctgccc A tctggaggcg gtgacaacag gacgtggtg gggccggcg cctcggcagg gggccggcg gtcgtggtg cgtgctgta cctgctgta tgtcgccg ggtggggcg gaacacgctg gtcatctacg tgggtgtg cctcgccag atgaagaccg tcaccaaat ctacattctc aacctggcag tggccgact cctgtacatg ctggggctg ctttcttggc cagcagaac ggcgctctt tctggccctt cggcccgct cgtgcccgc tggctcatg gctggacggc gtcaaccagt tcaccagtgt cttctgctg acagtcatg gctgggaccg ctacctggca gtggtgacc cgtgagtc gcccgtgg cgccggcg gctgggcca gctggcagc ggcgggcct ggtctctg tctgtgcatg tgcctgccc tctgtgtgtt cgggacgtg caggagggcg gtacctgaa cgccagctg cggagcccg tggggctgtg gggcgccgtc ttcatcatct acacggcgt gctgggttc ttcgcccgc tgtgtgtcat ctgctgtg tacctgtca tctgtgtgaa ggtgagggcg gggggctg cgtgggctg cgtgcccgg cgctcgagc ggaaggtgac gcgcatggtg ttggtgtgtg tctgtgtgtt tgcgggatg tggctgccc tcttaccgt caacatgctc aacctggcg tggcgtgctc ccaggagccc	Homo sapiens

320	4484	Somatostatin NP_001044.1 Receptor Type 5	MEPLPASTP KMTVTNIYIL NLAVADVLYM LGLPFLATQN AAEFWPFPGV LCRLVMTLDG VIYVILRFK SVNQTSVFCL TVMSVDRYLA VVHPLSSARW RRPVRKILAS AAANWLSLCM SLPLLVFADV QEGGTGNASW PEPVGLWGA VFIYTAVLGF FAPLLVTLCL YLLIVVKVRA AGVRVGCVRR RSERKVTIRMV LVVVLVFGC WLFFFTVNI VNLAVLPQEP ASAGLYFFV ILSYANSCAN PVLVGLSDN FRQSFQKVL C LRKSGAKDA DATEPRPDRI RQQEATPPA HRAAANGLMQ TSKL	Homo sapiens
321	4552	Tachykinin Receptor 1	aattcagagc caccgcgggc aggcgggcag tgcattccaga agcgtttata ttctgagcgc A cagttcagct ttcaaaaaga gtgctgccc taaaaagcct tccaccctcc tgtctgcttt agaaggaacc tgagcccccag gcgccagcca caggactctg ctgcagaggg gggtgtgtga cagatagtag gctttacgcc tagcttcgaa atggataacg tctcccggt ggactcagac ctctcccaa acatctccac taacacctg gaacccaatc agttcgtgca accagcctgg caaatgtcc ttgggcagc tgcctacacg gtcatctgtg tgacctctgt ggtgggcaac gtgtagtga tgggatcat cttagccac aaagaatga ggacagtac gaactatctt ctgtgaacc tggccttcgc ggagcctcc atgatacagt tcaatacagt ggtgaacttc acctatgctg tccacaacga atggtactac ggcctgttct actgcaagt ccacaacttc ttcccatcg ccgctgtctt cgccagtatc tactccatga cggctgtggc ctttgatag tacatggcca tcatacatc cctccagccc cggctgtcag ccacagccac caaagtgtc atctgtgtca tctgggtcct ggctctctg ctggccttcc ccagggcta ctactcaacc acagagacca tgcccagcag agtcgtgtgc atgatcgaat ggccagagca tccgaacaag attatgaga aagtgtacca catctgtgtg actgtgctga tctacttct cccctgctg gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg gactcctctg accgtacca cgagcaagtc tctgccaagc gcaaggtgtt caaatgatg attgtgtgg tgtgcacctt cgccatctgc tggctgcct tccacatctt ctctcctcg cccatatca accagatct ctacctgaag agtttatcc agcaggtcta cctggccatc atgtggctgg ccatagctc caccatgtac aacccatca tctactgtg cctcaatgac aggttccgtc tgggcttcaa gcatgcctc cgtgctgccc ccttcateag cgccggcgac tatgaggggc tggaaatgaa atccaccgg tatctccaga cccagggcag tgtgtacaaa gtcagccgcc tggagaccac catctccaca gtggtggggg cccacgagga ggagccagag gacggcccca agccacacc ctgctccctg gactgacct ccaactgctc ttcacgaagt gactccaaga ccatgacaga gagcttcagc ttctcctcca atgtgctctc ctaggccaca gggccccttg caggtgcagc cccactgccc tttagacctg ctccctcat gcatggaaat tccctcatc tggaaaccatc agaaacacc tcacactggg acttgcaaaa aggttcagta tgggttaggg aaacattcc atccttgagt caaaaaatct caattcttcc ctatctttgc caccctcatg ctgtgtgact caaaccaaat cactgaactt tgctgagcct gtaaaaataa aggctcgacc agcttttct caagagccca atgcattcca ttctggaag tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	MDNVLFPVDS LSPNISTNTS EPNQFVQPAW QIVLMAAAYT VIVTTSVUGN VVMMWIIAH P KRMRTVTNYF LVNLFAEAS MAAFTVNF TYAVHNEWY GLFYCKFHF FPIAAVFASI YSMTAVAFDR YMAIIHPLQ RLSATATKV ICVIWLALL LAFPGYYST TETMPSRVWC MIEWPEHPNK IYEKVYHICV TLIYFLPLL VIGYATVVG IFLWASEIPG DSSDRYHEQV SAKRKVVKM IVVCTFAIC WLPFHIFLL PYINPDLYK KFIQVYLAI MWLAMSSTMY NPIIYCLND RFRGFKHAF RCCPFISAGD YEGLMKSTR YLQTQSVYK VSRLETTIST VVGAEHEEPE DGPKATPSSL DLTSNCSRS DSKTMTESFS FSSNVLS	Homo sapiens
323	4687	Thrombin Receptor	NM_001992	ggcgggggc gcacagacc agaggggctt gcgagcggcg gctgagggac cgcggggagg A ggcgcccgag cggctccagc gcagagactc tcactgcac cgggaggccc ctctctcgct ccgccgcgc gaccgcgcg cccagtcgcg cccgcgccg ctacccgcc cagacacagc gctgcgcgag gctgccttg accctgatc taccctggg caccctggc tctgctgcc gcgaagaccg gctcccgac ccgcagaagt cagagagag ggtgaagcgg agcagccga ggcggggcag cctccggag cagcgcgcg cagagcccg gacaatggg ccgcggcgg tgctgctggt ggccgctgc ttcagtctgt ggcgcgcgt gttgtctgc cgcacccggg ccgcaggcc agaatacaaa gcaacaaatg ccacctaga tccccgtca tttctctca ggaaccccaa tgataaatat gaaccattt ggagagatga ggagaaaaa gaaagtgggt taactgaata aagattagtc tccatcaata aaagcagtc tctcaaaaa caacttctg cattcatctc agaagatgcc tccggatatt tgaccagctc ctggctgaca ctcttctgc catctgtga caccggagt tttgtagtca gcctccact aaacatcatg gccatcgtt tgttcatct gaaaatgaag gtcaagaagc cggcgttgggt gtacatgctg caccctggca cggcagatgt gctgtttgtg tctgtctcc cctttaatc cagctattac tttccggca gtgattggca gtttgggtct gaattgtgc gcttcgtcac tgcagcattt tactgtaaca tgtacgctc tatctgtct atgacagtca taagcattga ccggttctg gctgtggtgt atcccatgca gtccctctc tggcgactc tgggaaggc ttccttact tgtctggcca tctgggctt gccatcgca ggggtagtgc ctctgctc caaggagcaa accatccagg tgccgggct caacatcact accgtcatg atgtgtcaa tgaacccctg ctggaaggct actatgcta ctacttctca gcttctctg ctgtctctt tttgtgccc ctgacattt ccacggtctg ttatgtgtc atcattcgat gtcttagct ttcgcagtt gccaacgca gcaagaagtc ccgggcttg ttcctgtcag ctgctgttt ctgcatctc atcatttct tcggaacccac aaacgtctc ctgattggc attactcatt ccttctcac acttccacca cagaggtgc ctactttgc tactctct tactctct gtgtctgtg cagcagcata agctcgtga tcgacccct aatttactat tacgcttct ctgagtcca gaggtacgtc tacagtatct tatgtgcaa agaaagttcc gatcccgca gttataacag cagtgggcag ttgatggcaa gtaaaatgga tacctgctct agtaacctga ataacagcat atacaaaaa ctgttaactt aggaaaaagg actgctggga ggttaaaaag aaaagtttat aaaagtgaat aacctgagga ttctattagt cccacccaa actttattga ttcacctt aaacaacag atgtacgact tgcatacctg ctttttatgg gagctgtcaa gcatgtatt ttgtcaatta ccagaaagt aacaggacga gatgacggtg ttattccaa ggaattatgc caatgtaca gtaataatg aatgtcact ctggatatag ctagggtgaca tatacatact tacatgtgtg tatatgtaga	Homo sapiens

324	4687	Thrombin Receptor	NP_001983.1	<p> tgtatgcaca cacatatatt attgcagtg cagtatagaa taggcacttt aaaacactct ttcccgcac ccagcaatt atgaataa tctcgattc cctgatttaa tatgcaagtg ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg cttgtaccac ttttcaaat aagtatttt tgaattgtt tgacggcaag gtttaagtta ttaagaggta agacttagta ctactgtgc gtagaagttc tagtgtttc aatttaaac atatacaagt ttgaattcct aaaattatgg aacagatga aaagcctctg tttggatatg gtagtatatt tttacatttt acacattgta cacataagcc aaacttgagc ataagtcctc tagtgaatgt aggcctgctt tcagagttag ctattcctga gagctgcatg tgtccgcccc ctagggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaacctcctc gctgagcctc acagcagtga gactggggcc actacattg ctccatcctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaagcaga atgtgatc ctaggagga atgaccatga aagactctc taccatctt aaaaaaacg aaagaaggca tggacttctg gatgccatc cactggtgtt aaacacatct agtagtgtt ctgaaatgtc agttctgata tggaaagcacc cattatgctg tgtggccact ccaatagtg ctgagtgtac agagtggaaat aagacagaga cctgcccctca agagcaaat agatcatgca tagagtgtga tgtatgtga ataaatatgt ttacacaaaa caagcctgt cagctaaaga agttgaaca tttgggttac tattcttctg ggttataact taatgaaac aatgcagtac aggacatata ttttttaaaa taagtctgat ttaattgggc actattttt tacaaatgtt ttgtcacaata gattgctcaa atcagggtttt cttttaagaa tcaatcatgt cagtctgctt agaaataaca gaagaaata gaattgacat tgaattctag gaaaattatt ctataattc cattactta agacttaatg agactttaaa agcattttt aacctctaa gtatcaagta tagaaaatct tcatggaatt cacaagtaa tttggaaatt aggttgaac atatctcta tcttacgaaa aaatggtagc attttaaca aaatagaag ttgcaaggca aatgtttatt taaaagagca gcccaggcgc ggtggtcac gccgtgaatc ccagcacttt gggaggctga ggcgggtgga tcacgaggtc agagatcga gaccatcctg gctaaacacgg tgaacccgt ctctactaaa aatgcaaaaa aaattagcgc ggcgtgggtg caggcacctg tagtcccagc tactcggag gctgaggcag gagactggcg tgaaccagg aggcggacct tgtagtgagc cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc </p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p> tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagct A tcagccaca gcaagtgttg ccttagaata ccaggtggc accatcttac ttgtactcat tatttggc ctgggcatg taggcaacat catggtagtc ctggtgtgca tgagaaccaa gcacatgagg acccccacaa actgctacct ggtgagcctg gcagtagctg atctcatggg cttgggtggc gcaggcctcc ccaacataac agacagatc tacggttctt ggttctatgg </p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	<p>ctatgttgga tgctctgca ttactacat ccagtatttg ggaattaatg catcctcttg tcaataaca gcctttacca ttgagagga catagaatc tgcacccca tcaagccca gtttctctgc acattttcca gagccaaaa gattatcatc ttgtctggg ctttcacatc tccttactgt atgctctggt tcttctgct ggatccaat attagacatc aaaaagatgc tattgtgata tctgtgggt acaagatctc caggaattac tactcaacta ttacctaata gactttggt gtcttttatg ttgtgcaat gatctggct accgtctct atgattcatc agctagaatc cttttcttaa atcccatcc ttcatgctct aaagaaaact ctaagacatg gaaaaatgat tcaaccatc agaacaaca tctgaatga aatacctcta atagatgtt caacagcaca gtatctcaa ggaagcaggt caccagatg ctggcagtgg ttgtaattct gtttggccctt ttatggatgc cctacaggac tctagtgggt gtcaactcat ttctctccag tcctttccaa gaaaattggt ttttgcctt ttgcagaatt tgcatttctc tcaacagtgc catcaaccgg gtgatttaca atctcatgtc ccagaaattc cgtgcagcct tcagaaaact ctgcaactgc aagcagaagc caacagagaa acctgtaac tacagtgtgg cctaaatta cagcgtcatc aagagtcag accatttcag cacagagctt gatgatatca ctgtcactga cacttacctg tctgcccaa aagtgtctt tgatgacacc tgcttggtct ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaagaaa ttgagaatct gtgcagtcac caacaaaagg gagaacatgg ccaatagtca tatgtgaaga cagagcagat cagctcttct caatgctcta acaaacgg</p>	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	<p>MENEIVSELN QTQLQRAW ALEYQVVTIL LVLIICGLGI VGNIMVVLV MRTKHMRTPT P NRYLVSLAVA DMVLVAAGL PNITDSYGS WYGYVGLC ITYLYLGIN ASSCSITAFI IERYIAICHP IKAQFLCTFS RAKKIIIFW AFTSLYCLMW FFLLDLNIST YKDAIVISCG YKISRNYSP IYLMDFGVF VPMILATVL YGFILRILFL NPIPSDPKEN SKTWKNDSTH QNTNLNNTS NRCFNSVSS RKQVTMLAV WILFALLMW PYRTLIVVNS FLSSPFQENW FLLFRCICIY LNSAINPIY NLMSQKFRRA FRKLCNCKQK PTEKPANYSV ALNYSVIKES DHFEELDDI TVTDTYLSAT KVSFDDTCLA SEVSFSQS</p>	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	<p>attcggagct gcctcctgc caatgattcc agcgcctgac agcaggacc ccaggcagca A gcgagtga ca gacgtctgg accgcgccgc cgttagcagc tctgccggc cgcggcgggtg atcgtatggg agcggctgga gcggaccag cagtgaagg cgcacagccg gacgcccag gcggcgggcg ggagaccgc accagccag cggccctcg gcggacgtg acgacgccc cggggcgcg gttgatatt tgacaaattg atctaaaatg gctgggttt tatctgaata actcactgat gccatccag aaagtccgca ccaggtgtat tgatatagt gtttgcaaca aatcgacc agtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaaaga atccaagatg attgtcccaa agctggaagg cataattaca tattgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttggaaaca ctttgggtgt gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgtttttc ttgtgaattt agcactggct gacttatgct ttttactgac ttggccacta tgggtgtct acacagctat ggaataccg tgcccttttg gcaattacct atgtaagatt gcttcagcca cgtcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc attgatcgt acctggctat tgttcacca atgaagtccc gccttcgacg caaatgctt gtagccaaag tcacctgcat catcatttgg ctgctggcag gcttggccag ttggccagct ataattccatc gaaatgtatt ttctattgag aacaccaata ttacagtgtg tgctttccat tatgagtccc aaattcaac ccttccgata</p>	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p>gggctgggcc tgacaaaaa tatactgggt ttctgtttc cttttctgat cattcttaca agttatactc ttatttggaa ggccctaaag aaggtttatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc tttttttttt cttttctctgg attccccacc aaatattcac tttttctgat gtattgtatc aactaggcat catacgtgac tgtagaattg cagatattgt ggacacggcc atgcctatca ccatttgtat agcttatttt aaccaattgcc tgaatcctct tttttatggc tttctgggga aaaaaattaa aagatatattt ctccagcttc taaaatatat tccccaaaa gccaaatccc actcaaacct ttcaacaaaa atgagcacgc tttcttaccg cccctcagat aatgtaagct catccacca gaagccctgca ccatgttttg aggttgatg acatgttga aacctgtcca taaagtaatt ttgtgaaga aggagcaaga gaacattcct ctgcagcact tcactacca atgagcatta gctacttttc agaattgaag gaaaaaatgc attatgtgga ctgaaccgac ttttctaaag ctctgaacaa aagcttttct ttccttttgc aacaagacaa agcaaaagcca ctttttgcatt tagacagatg acgggtgctc gaagacaat gtcagaaact cgtgaaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa ggtattttaga atatatataa tcgttagagg agcaacagga gatgagagtt ccagattgtt ctgtccagtt tccaaaggcc agtaaaagtt tcgtgcggtt ttccagctat tagcaactgt gctacacttg cacttggtac tgcacatttt gtcaaaagat atgctaagca gtatgtgtca agttgcagat ctttttgtga aattcaacct gtgtcttata ggtttacact gccaaaaaaa tgcccgtaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagttaaac tacttgtaaa ggtgtgtcac tgggtcccaag tagtagtgtc ctctagtagt attagtttga tttaatatct gagaagtgta tatagtttgt ggtaaaaga ttatatata taaagtatgc cttctgtgtt aaaaaagta tatatttctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaactgtgca aagtattatt tacttttaaa taaataaatt ttattgc</p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p>IKRIQDCPK AGRHNYIFVM IPTLYSIIFV VGIFGNSLVV IVIYFYMKLK P TVASVFLLNL ALADLCFLLT LPLWAVVTAM EYRWPFNGYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPMKSLRLR TMLVAKVTCI IILWLAGLAS LPALIIHRNVF FIENTNITVC AFHYESQNST LPIGLGLTKN ILGFLFPFLI ILTSYTLIWK ALKKAYEIQK NKPRNDDIFK IIMAIVLFFF FSWIPHQIFT FLDVLIQIGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGFLGKKFK RYFLQLLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtcccagc gtctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaggagt gtgtttaggc actaagcaag ctgatttatg ataactgctt taaacttcaa caaccaagg cataagaact aggagctgct gacatttcaa tatgaagggc aactccacc ttgcccactac tagcaaaaac attaccagcg gctcttcaact cgggctgttg aacatctctg gcaacaatga gtctacattg aactgttcac agaaaccatt agataagcat ttagatgcaa ttcctattct ttactacatt atattttaa ttggatttct ggtcaaatatt gtctgggtta cactgttttg ttgtcaaaag ggtcctaaaa aggtttctag catatacatc ttcaacctcg ctgtgggtga ttactcctt ttggctactc ttctctatg ggcaacctat tattcttata gatatgactg gctcttttga cctgtgatgt gcaaaagttt ttgttctttt cttaccctga acatgtttgc aagcattttt ttatcacct gcatgaggtg tgatagggtac caatctgtca tctaccctct tctgtctcaa agaagaaatc cctgggcaagc atcttatata gtcccccttg</p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p>tttggtgtat ggctgtttg tcctcattgc caacatttta ttttcgagac gtcagaacca ttgaatactt aggagtgaat gcttgcattha tggctttccc acctgagaaa tatgcccatt ggtcagctgg gattgcctta atgaaaaata tccttggttt tattatccct ttaattattca tagcaacatg ctattttgga attagaaaac acttactgaa gacgaatagc tatgggaaga acaggataac ccgtgaccaa gtcctgaaga tggcagctgc tgttggtctg gccttcata ttgggtgcct tccttccat gttctgacct gtttgatgc ttttggtgg atgggtgtca ttaatagctg cgaagtata gcagtcattg acctggcact tccttttgcc atcctcttgg gattcaccaa cagctgcgtt aatccgtttc tgtattgttt gtttgaaaac cggttccaac agaagctccg cagtggtttt aggtttccaa ttacttggct ccaagggaag agagagagta tgtcttgccg gaaaagcagt tcctttagag aatggagac ctttgtgtct taacggaga gcaaatgca tgtaatacaac atggctactt gctttgagc tcaccagaat tatttttaag tggttttaat aaaaataaa aatttccct aatcttttct gaatcttctg aaaccaaag taactatgtt tatcgtccag tgactttcag gaatgccat tgttttctga tatgtttgta caagatttca ttggtgagac atatttaca cctagaagta actggtgata tatctcaaat tgtaattaat aatagattgt gaataatgat ttggggaattc agatttctct ttgaacatg ctgtgtttc ttagtgggtt ttatatcca tttttatcag gatttctct tgaaccagaa ccagtccttc aactcattgc atcatttaca agacaacatt gtaagagaga tgagcacttc taagttgagt atattataat agattagtag tggattattc aggtcttagg catatgcttc tttaaaaacg ctataaatta tttcctctt gcatttctact tgagtggagg tttatagtta atctataact acataatgaa tagggctagg aatatagatt aaatcatact cctatgcttt agcttatttt tacagttata gaagcaaga tgtactataa catagaattg caatctataa tatttgggtg ttacttaaac tctgaataag cactttttta aaaaatttct actcatatta atgattgttt aaaggtttct atttctctg atactttttt gaaatcagta aacactgtgt attgtgttaa aatgtaaagg tcacttttca catccttgac ttttagatg tgctgctttg atatatagga cattgatttg atttttatta ttaatgcttt ggttctgggt tgtttcctaa aatatctggg tggcttaaaa aaactcttt aactgtaat aaaccttaa ctggcatagg aaatggtatc cagaatggaa ttttgctaca tggggtctgg gtgggggcaa agagaccag tcaattacat gtttggtagc agaaaaggaa cctgtcagg cagtacaatg tgactttgaa aatatatacc gtgggggtag ttttacccta tatctataaa cactgtttgt tccagaatct gtatgattct atggagctat tttaaaccaa ttgcaggctc aga</p>	Homo sapiens
331	5072	Pyrimidinerg ic Receptor P2Y4	NM_002565	<p>atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tctggcagc A agtgaggtgg agctggactg ttggtttgat gaggatttca agttcactct gctgcctgtg agctatgcag ttgtctttgt gctgggcttg ggccttaacg ccccaacct atggctcttc atcttccgcc tccgacctg ggatgcaacg gccacctaca tgttccacct ggcattgtca</p>	Homo sapiens

332 5072 Pyrimidinerg NP_002556.1 IFRLRPDAT ATYMFHLALS DTLYVLSLPT LIYYAAHNH WPFGEICKF VRFLFYWNLY
ic Receptor
P2Y4

Homo sapiens
RADRL
agggcagata gattgtaa
cctgaggata gcaagtcgacg gtagggcgcc acccccagg acagtagctg ctctactctc
tgtggtggtg gcaagcccca gcccgcacg gctgcctctt cctggcact agtgcctcg
ctggatcctg tgcctactt gctcactggg gacaaatc gacgtcagct cgtcagctc
ctgaacattg tcaacgtggt ctataaagt actcgcccc tggccagtcg caacagctgc
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accacgtcc tggccatga caccactcg cctgaaggt ttgaccacta tgtgcactc
ttggtcgtag cgggtgctt cgtgcccac cgtgtcttgg tcacaaccag caacaaaggg
cttcgggcac tacgtgggg cgcctcgc ctgcagctt cctctgctt ggcagtttgg
tgcaagtcc tttctctac ctgcacagc gtgcacgct acctgggcat ctgccacca
tgccctttg gactgagat ctgcaagttc gtccgtttc tttctattg gaacctctac
gacacctgt atgtgctgtc gtgcccacc ctcatctact attatgcagc ccacaaccac

333 5117 Vasopressin NM_000706
V1A Receptor

Homo sapiens
taattgcttg aaggatttt tccagacagg tggctgtgaa acctttacc tattacctc A
catccctgaa ccatttcaat ctctgcctc ctggatatct tggagaaat gaaccaaac
aacacagctt tcagtttta gagcatttcc cccatacaga acattgtctt acttgatctt
cccgatgacc tcaacaacag gaaaggcagg tcttttcat tccatttata agacgcacag
accaggtt atctagccac aggaagcagg actccagatt tcaagtcagg catctcaacg
tgacaacctt ggtaaactct catgaacgga ctggatagta aagtggatt attactgaga
actgcaatga ataaaactt ttgcattttt tgcctacgtt tcacagaggg tgatatattt
ctgaggcaat taaatttata ccacggccac aatactgaaa cgttctgacc acaaaagtca
tgctcctgca tctacacagc agataactgc agaaaggct tctttcttc ctgtaaaaat
tgctgaaaaa cagctcccc ttgctgtccg tcgaggcata tcttcaccaa cgttaaaaaa
gagctgagg agatgcatt tctgcctccc tcccgcctc cagaggggct ccagctgttc
agagtaacgg attactaggt agtggttgt ttcccctct tcccaggcc tcttctctct
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gacctggaca gcactgcctg gatggcgtt ctccggcagc tgctcttctt ccacccaaaa
agatgtcccc acgactcagt agtaaccaga cgggtcccc cggaccactgc ggccaaattt
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335 5118 Vasopressin
V1B Receptor

NM_000707

336 5118 Vasopressin NP_000698.1 Homo sapiens
V1B Receptor

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337 5119 Vasopressin NM_000054 Homo sapiens
V2 Receptor

338	5119	Vasopressin V2 Receptor	NP_000045.1	MLMASTTSVAV ALARRGRRGH VGMVASSYMI RVNVEGSGVT SERPGRRRG PLEGAPFVLL ASSSLAKDTS S	PGHPSLPSLP WAPIHVFIGH LCLADLAVL ICRPMLAYRH GRTYVTWIA HVSAAVAKTV NPWIIYAFSS SVSSELSLL	TRDFLLARAE FQVLPQLAWK GSGAHWNRPV LMVEVAPTLG RMTLVIVVY VLCWAPFFLV CCARGRTPPS	LALLSIVFVA ATDRFRGPD LVAWAFSLLL IAACQVLIFR VLCWAPFFLV CCARGRTPPS	VALSNGLVLA LCRAVKYLQM SLPQLFIFAQ EIHASLVPGP QLWAAWDPEA LGPQDESCIT	Homo sapiens	
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Homo sapiens

346 5521 Brain- NP_001695.1

Specific Angiogenesis Inhibitor 3

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Homo sapiens

347 6031 SIV/HIV Receptor BONZO NM_006564

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349	6204	Lysophosphat idic Acid Receptor Edg4	NM_004720	<p> gcccagatgg tcatcatggg ccagtgcctac tacaacgaga ccatcggtt cttctataac A aacagtggca aagagctcag ctcccactg cggcccaagg atgtggtcgt ggtggcactg gggtgacgg tcagcgtgct ggtgctgctg accaatctgc tggatcatagc agccatcgcc tccaaacgcc gcttccacca gccatctac tactgctcg gcaatctggc cgcggtgac ctcttcggg gcgtggccta cctctctc atgttccaca ctggtcccc caccgccga ctttcactg agggctggtt cctgcggcag ggtctgctg acacaagcct cactgctcg gtggccacac tgcctggcat cgccgtggag cggcacgcca gtgtgatggc cgtgcagctg cacagccgcc tgccccgtg ccgcgtggtc atgctcattg tggcgctgtg ggtggctgccc ctgggctgg ggctgctgccc tggccactcc tggcactgccc tctgtgccc ggaccgctgc tcacgcatgg caccctgct cagccgctcc tattggcgg tctgggctct gtcgagcctg cttgtcttcc tgcctcatgtt ggctgtgtac acccgattt tcttctacgt gcggcgggca gtgcagcgca tggcagagca tgtcagctgc caccctgct accgagagac cagcgtcagc </p>	Homo sapiens

Accession	Gene	Protein	Species
6204	Lysophosphatidic Acid Receptor Edg4	NP_004711.2	Homo sapiens
6213	C-C Chemokine Receptor 5	NM_000579	Homo sapiens
351			

352	6213	C-C Chemokine Receptor 5	NP_000570.1	<p> aaaatatgtt gatgaaaaat agcaaccitt ttatctcccc ttacatgca tcaagttatt gacaaactct cccttcactc gaaagtctc ttatgtatat ttaaaagaaa gcctcagaga attgctgatt cttgagttta gtgactgaa cagaaatacc aaaattattt cagaaatgta caacttttta cctagtacaa ggaacatat aggttgtaaa tgtgtttaaa acaggctctt gtcttgctat ggggagaaaa gacatgaata tgattagtaa agaaatgaca cttttcatgt gtgattccc ctccaaggtg ttggttaata ttctcactga cttagaacca ggcgagagac ttgtgacctg ggaagacctg ggaagcttct taaatgagaa ggaatttag ttggtatcat tattgctggc aaagacagaa gcctcactgc aagcactgac tgggcaagct tggctgtaga aggagacaga gctggttggg aagacatggg gaggaaggac aagcctagat catgaagaac cttgacggca ttgctccgtc taagtcatga gctgagcagg gagatcctgg ttggtgttgc agaagttta ctctgtggcc aaaggagggt caggaaggat gaggatttag ggcaaggaga ccaccaacag ccctcaggtc aggtgagga tggcctctgc taagctcaag gcgtgaggat gggaaggagg gaggtattcg taaggatggg aaggaggagg gtattcgtgc agcatatgag gatgcaggt cagcagaact ggggtggatt tgggttgga gtgagggtca gagaggagtc agagagaatc cctagtcttc aagcagattg gaaaaacct tgaagagaca tcaagcacag aaggaggagg aggagttta ggtcaagaag aagatggatt ggtgtaaaag gatgggtctg gttgacagag ctgaaacaca gtctcaccga gactccaggc tgtctttcac tgaatgcttc tgacttcata gatttcttc ccattccagc tgaataactg aggggtctcc aggaggagac tagatttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat ctagtgagg attgattacc tagtagtcat ttcatgggtt gttgggagga ttctatgagg caaccacagg cagcatttag cacatactac agcatcaaac agcatcaaac tcttagttac tcattcaggg atagcactga gcaaagcatt gacaaaggtg tgcacacaa gttaggtatc attttctgca gcctgaaaaa ctaagatgct gcctgcccag gacaaaggtg tgcacacaa gttaggtatc attttctgca ttaaccgtc aataggcaaa ggggggaaag gacataatca ttggaaata agctgccttg agccttaaaa ccacaaaaag tacaatttac cagctccgtt atttcagact gaatgggggt ggggggggcg ccttaggtac ttattccaga tgccttctcc agacaaacca gaagcaacag aaaaaatcgt ctctccctcc ctttgaaatg aatatacccc ttagtgttg ggtatatca ttcaaaaggg agagagagag gttttttctt gtctttctc atagtattgt gcacatactt gagactgttt tgaatttggg ggtggtctaa aaccatcata gtacaggtaa ggtgagggaa tagtaagtgg tgaghaactac tcagggaatg aaggtgtcag aataaataa ggtgctactg actttctcag cctctgaata tgaacgggtga gcatgtggc tgtcagcagg aagcaacgaa gggaaatgct tttccttttg ctcttaagt gtggagagtg caacagtagc ataggacct accctctggg ccaagtcaaa gacattctga catcttagta ttgcatatt cttatgtatg tgaaggttac aaattgcttg aagaataata tgcattctaat aaaaaacacc ttcta LKSMTDIYLL NLAISDLEFL LTVPFWAHYA AQWDFGNM RLPLPLYSLV FIFGVGNML VILINCKR P LLTIDRYLAV VHAFFALKAR TVTFGVVTSV ITWVAVFAS LPGLIFTRSQ KEGLHYTCSS HFPYSQYQFW KNFQTLKIVI LGLVPLLM VICYSGLKLT LLRCRNEKRR HRAVRLIFTI MIVYFLWAP YNIVLLNTF QEFFGLNCS SSRLDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIAKRF CKCCSIFQOE APERASSVYT RSTGEQEISV GL </p>	Homo sapiens
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353	6363	Chemokine (C-C motif) Receptor- like 2 (CCRL2)	NM_003965	<p>tctgtctctg gggaagtggg cacacgttaa aagaaatggt tatttcagtc ttctgaaata A</p> <p>gggaattact ctggctaaaa ttagcttcca gaaagggaaa gtgggctgt atgaatccag</p> <p>gtccagtttg ttgttctctc caggataagg cagctgtcgg aggggaaaat catctcccat</p> <p>ttctccacag ggcagttga agatggccaa ttacacgttg gcaccagagg atgaatatga</p> <p>tgctctcata gaaggtgaac tggagagcga tgaggcagag caatgtgaca agtatgacgc</p> <p>ccaggcactc tcagccagc tgggtccatc actctgctc gctgtgttg tgatcggtgt</p> <p>cctggacaat ctctgtgttg tgcctatctt ggtaaatat aaaggactca aacgcgtgga</p> <p>aaatatctat ctctaaact tggcagtttc taactgtgt ttcttgctta cctgcccc</p> <p>ctgggctcat gctggggggg atcccatgtg taaaattctc attgactgt acttcgtggg</p> <p>cctgtacagt gagacatttt tcaattgctt tctgactgtg caaaggtacc tagtgttttt</p> <p>gcacaagggc aactttttct cagccagagg gaggtgccc tgtggcatca ttacaagtgt</p> <p>cctggcatgg gtaacagcca ttctggccac ttgtcctgaa tacgtgtgtt ataaacctca</p> <p>gatggaagac cagaaataca agtgtgcatt tagcagaact cccttcctgc cagctgatga</p> <p>gacattcttg aagcattttc tgactttaaa atgaacatt tgggttcttg tctccccct</p> <p>attatttttt acatttctct atgtgcaaat gagaaaaaca ctaaggttca gggagcagag</p> <p>gtatagcctt ttcaagcttg tttttgcat aatggtagtc ttcttctga tgtggcgcc</p> <p>ctacaattt gcatttttcc tgtccacttt caaagaacac ttctccctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctcatcgcca ccaccactg</p> <p>ctgcatcaac cctctcctgt atgcgtttct tgatgggaca tttagcaaat acctctgccg</p> <p>ctgtttccat ctgcgtagta acacccact tcaacccagg gggcagcttg cacaaggcac</p> <p>atcgagggaa gaacctgacc attccacga agtgaact agcatccacc aaatgcaaga</p> <p>agaataaaca tggattttca tctttctgca ttatttcatg taaatttctt acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgtt aagcactgaa</p> <p>ttgtctcag gcacgtgca aggtcttcta caaacgtgag ctcttcgccc tctaccact</p> <p>tgctcatagt gtggatagga ctagtctcat ttctctgaga agaaaaactaa ggcgcggaaa</p> <p>ttgtcttaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgcttgg tccagaacat caaactccaa accctgggga caaacgacat</p> <p>gaaataaatg tattttaaaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCRL2)	NP_003956.1	<p>LILVKYGLK RVENIYLNL AVSNLCFLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTQRYL VFLHKGNFES ARRVPCGII TSVLAWVTAI LATLPEYVVY KPQMEDQKYK</p> <p>CAFSRTPFLP ADETFWKHL TLKMNISVLV LPLFIFFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVFLIM WAPYNIAFFL STFKEHFSLS DCKSSYNLKD SVHITKLIAT THCCINPLLY</p> <p>AFLDGTFSKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p>atgcgagccc cgggcgcgct tctgcgcgcg atgtcgcggc tactgcttct gctactgctc A</p> <p>aaggtgtctg cctcttctgc cctgcgggtc gcccttcgct ccagaaacga aacttgtctg</p> <p>ggggagagct gtgcacctac agtgatccag cgccgcggca gggacgcctg gggaccggga</p> <p>aattctgcaa gagactttct gcgagcccca gcacccaggg aggagcaggg ggcagcgttt</p> <p>cttgccggac cctcctggga cctgcggcg gccccggcc gtgacccggc tgcaggcaga</p> <p>ggggcggagg cgtcggcagc cggaccccc ggacctccaa ccaggccacc tggccccctgg</p> <p>aggtggaaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccacg</p>	Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	<p> ggcctccagc tcttctctca gatctcagag gaggaagaga aggttcccag aggcgctggc atttccggc gtagccagga gcagagtgtg aagacagtcc ccggagccag cgatcttttt tactggccaa ggagagccgg gaaactccag ggttcccacc acaagccctt gtccaagacg gccaatggac tggcggggca cgaagggtgg acaattgcac tcccggggcg ggcgctggcc cagaatggat ccttgggtga aggaatccat gagcctgggg gtccccgcg gggaacagc acgaaccggc gttgagact gaagaacccc ttctaccgc tgaccaggga gtccatgga gcctacggcg tcatgtgtct gtcctgtgtg atcttcggga ccggcatcat tggcaacctg gcggtgatgt gcatcgtgtg ccacaactac tacatgcgga gcatctccaa ctcccctctg gccaacctgg ccttctggga ctttctcatc atcttcttct gccttccgct ggtcatcttc cacgagctga ccaagaagtg gctgctggag gacttctctt gcaagatcgt gccctatata gaggtcgctt ctctgggagt caccacctt acccttatgt ctctgtgcat agaccgcttc cgtgctgcca ccaacgtaca gatgtactac gaaatgatcg aaactgttc ctcaacaact gccaaacttg ctgttatatg ggtgggagct ctattgttag cacttccaga agttgttctc cgccagctga gcaaggagga ttggtgggtt agtggccgag ctccggcaga aggtgcatt attaagatct ctctgatit accagacac atctatgttc tagccctcac ctacgacagt gcgagactgt ggtggtatit tggctgttac tttgtttgc ccacgctttt caccatcacc tgctctctag tgactgcgag gaaaatccgc aaagcagaga aagcctgtac ccgagggaa aaacggcaga ttcaactaga gactcagatg aactgtacag tagtggcact gaccatttta tatggatttt gcattattcc tgaataatc tgcaacattg ttactgccta catggctaca gggttttcc agcagacaat ggacctctt aatatacaca gccagtctct tttgttctt aagtctgtg tcacctcagt cctcctttt tgtctctgca acccttccag tcgggccttc atggagtgt gctgctgttg ctgtgaggaa tgcattcaga agtcttcaac ggtgaccagt gatgacaatg acaacgagta caccacggaa ctgaaactct cgcctttcag taccatacgc cgtgaaatgt ccactttgc tctgtcga actcattgct ga </p>	Homo sapiens
357	6536	Putative Neurotransmi tter Receptor (PNR)	NM_003967	<p> atgagagctg tcttctacca aggtgctgaa gagcaccctg cggcattctg ctaccaggtg A aatgggtctt cccccaggac agtacatact ctgggcatcc agttggtcat ctacctgacc tgtgcagcag gcatgctgat tatcgtgcta gggaatgtat ttgtggcatt tgctgtgtcc tacttcaag cgcttcacac gccaccaac ttctgtgctg tctccctggc cctggctgac atgtttctgg gtctgctggt gctgccccct agcaccattc gctcagtgga gagctgctgg ttcttcgggg acttctctctg ccgctctgca acctacctg acacctctt ctgcctcacc </p>	Homo sapiens

358	6536	Putative Neurotransmitter Receptor (PNR)	NP_003958.1	<p> tccatcttcc atctctgttt catttccatt gaccgccact gtgccatctg tgacccccctg ctctatccct ccaagttcac agtgagggtg gctctcaggt acatcctggc aggatggggg gtgcccgcag catacacttc gttattcttc tacacagatg tggtagagac aaggctcagc cagtggtctg aagagatgcc ttgtgtgggc agttgccagc tgctgctcaa taaattttgg ggctggttaa acttcccttt gtctttgtc cctgctcaca ttatgatcag cttgtatgtg aagatctttg tggttgctac gagacaggct cagcagatta ccacattgag caaaagcctg gtggtggctg ccaagcatga gagaaaagct gccaagacc ttggcattgt tgtgggcata tacctcttgt gctggctgcc cttcaccata gacacgatgg tcgacagcct ccttcacttt atcacacccc cactggtctt tgacatcttt atctggtttg cttacttcaa ctcagcctgc aaccccatca tctatgtctt tctctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tcttctcacc gcagacacgc actgttgatt tgtaccaaga atga MRAVFIOGAE EHFAAFCYQV NGSCPRTVHT LGIQLVIYLT CAAGMLIIVL GNVFVAFVS P YFKALHTPTN FLLSLALAD MFLGLLVLP STIRSVESCW FFGDFLCRLH TYLDTLFLCLT SIFHLCTFISI DRHCAICDPL LYPSTFTVRV ALRYILAGWG VPAAYTSFL YTDVVETRLR QWLEEMPCVG SCQLLNKFW GWLNFPLFFV PCLIMISLV KIFVATRQA QQITTLKSLS AGAAKHERKA AKTLGIVVGI YLLCWLPTI DTMDVSLHF ITPPLVFDIF IWFAYFNSAC NPIIYVFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p>	Homo sapiens
359	6777	G Protein- Coupled Receptor TM7SF1	NM_003272	<p> cgccgcgatg cgcggagacc cccgcggggg cggcggggc cgtgagcccc gatgaggccc A gagcgtcccc ggcgcggcgg cagcgcccc gcgccgatgg agacccccgc gtgggaccca gcccgaacag actcgtgcc gccacgctg acccgcggcg tgcctcccta cgtgaagctt ggcctcacg tctgtacac cgtgttctac gcgtgctct tcgtgttcat ctacgtgcag ctctggctgg tgctgcgtta cgcacacaa cgctcagct accagagcgt ctctctctt ctctgcctct tctgggctc cctgcggacc cctctctct cctctactt caaagacttc gtggcggeca attcgtcag cccctctgtc ttctggctgc tctactgctt cctgtgtgc ctgcagtttt tcacctcac gctgatgaac ttgtacttca cgcaggtgat ttccaagcc aagtcacaaat attctccaga attactcaa taccggttgc cctctacct ggcctccctc ttcatcagcc ttgttttctt gttggtgaat ttaacctgtg ctgtgctggt aaagacggga aattgggaga ggaaggttat cgtctctgtg cgaagtggcca ttaatgacac gctcttcgtg ctgtgtgccg tctctctctc catctgtctc tacaaaatct ctaagatgct cttagccaac attacttgg agtccaaggg ctctccctg tgtcaagtga ctgccatcg tgtcacccgtg atactgcttt acacctctcg ggcctgctac aacctgttca tctgtctatt tctcagaac aagagcgtcc attcctttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctgg atactgatta ttggagtggt tgttatttgt ttgggaactc ttacctacca ccttagtgt ttatttcttc cgagttagaa atctacaaa ggaacctacc aacctggaa tggccccag ccatggattc agtcccagat cttatttctt tgacaacct cgaagatatg acagtatga tgaccttgc ttgaaacttg cccctcaggg acttcaggga ggttttgtc cagattacta tgattgggga caacaaacta acagcttctt ggcacaaaga ggaactttgc aagactcaac ttgtgtcct gacaaaccaa gcttgggta gcatcagtta acagttttat ggacgattcc tcagatgaaa agcttcagaa aagcatagt acagctgaat ttttagggca ctttccctta agaaatagaa cttgattttt attgtttaca ggtttccaat ggcccatag gaataagcaa taatgtagac tgataaaccc ttattttag actaaagagg </p>	Homo sapiens

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRPERPRRG SAPGPMETPP YVQLWLVLRY RHKRLSYQSV PVCLOQFFTLT LMNLYFTQVI KTGNWERKVI VSVRVAINDT VTVILLYTSR ACYNLFILSF WELLPTTLVV YFFRVRNPTK LQGGFAPDYY DWGQQTNSFL	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLFSEYF FKAKSKYSPE LLKYRLPLYL LFVLCAVSL ICLYKISKMS SQNKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG	atggtatcgag gtgccaagtc atggatcgag gtgccaagtc
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363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPIA FCVHPLLYMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPSQRELS Q atggcttcac ccagcctccc gggcagtgac tgctccaaa tcattgatca cagtcatgtc A cccagatttg agtggtccac ctggatcaaa atcacctta ttctggtgta cctgatcatc ttctgtatgg gcttcttggg gaacagccc accattcggg tcaccagggt ctcgagaaga aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctcggacatc ttggtgttcc tcatcgcat gccatggag tctacagca tcatctgaa tccctgacc acgtccagct acaccctgtc ctgcaagctg cacactttcc tcttcgaggc ctgcagctac gtacgcctgc tgcacgtgct gacactcagc tttaggcgct acatcgccat ctgtcacccc ttcagggtaca aggtgtgtc gggaccttgc caggtgaagc tgctgattgg ctctgtctgg gtcacctcgg ccttggtggc actgcccctg ctgtttgcca tgggtactga gtacccccctg gtgaacgtgc ccagccaccg ggtctcact tgcaaccgtc ccagcacccg ccaccacgag cagcccgaga cctccaatat gtccatctgt accaaactct ccagccgctg gaccgtgttc cagtcacgca tcttcgggc ctctgtgtc tacctgtgg tctgtctctc cgtagccttc atgtgctgga acatgatgca ggtgctcatg aaaagccaga aggtctcgt ggcggggggc acgcggcctc cgcagctgag gaagtcgag agcgaagaga gcagaccgc cagagggcag accatcatct tctgaggtc gattgttg acattggccg tatgtggat gcccaaccg attcggagga tcatggctgc ggcctcctcc agcctcgtg ggcagaggtc ctacttccgg gcgtacatga tctcctccc ctctcggag acgtttttct acctcagctc ggtcatcaac ccgtctcgt acacggtgtc ctgcagcag ttctgcggg gtctcgtgca ggtcgtgtgc tgccgctgt cgtgcagca cgccaaacc gagaagcgc tgcgctgaca tgcgactcc accaccgaca gcgccgctt tgtgcagcg ccgtgtctct tgcgtcccc gcgccagtc tctgcaagga gaactgagaa gattttctta agcactttc agagcgagg cgagcccccag tctaagtccc agtcattgag tctcagatca ctagagccca actcagggcg gaaaccagcc aattcgtctg cagagaatgg ttttcaggag catgaagttt ga NP_001499.1 MASPSLPGSD CSQIIDSHV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQLQK P KGYLQKEVTD HNVSLACSDI LVFLIGNPME FYSIWNPLT TSSYTLSCKL HTLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFW VTSALVALPL LFAMGTEYPL VNVPSHRLT CNRSSTRHE QPETSNSMIC TNLSSRWTF QSSIFGAFW YLVVLLSVAF MCWNMQVLM KSQKGLAGG TRPPQLRKSE SEESRTARRQ TIIFRLIVV TLAVCWMPNQ IRIRMAAKP KHDWTRSYER AYMLLPFSE TFFYLSVIN PLYTVSSQ FRRFVQVLC CRLSLQHANH EKRLRVHAHS TTDSARFVQR PLIFASRRQS SARTEKIFL STFQSEAEPO SKQSLSLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccgggagct tcccgctcgc gaagaccag acggctgcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggctgctc caggggccgg gaacgcgagc caggcggggc gcgggggagg ctggcacccc gaggcgttca tctgtcccc gctcttcgcg ctcatcttc tctgtgggac cgtgggcaac acgtcgtgc tggcggtgct gctgcgcgcg ggccaggcgg tcagcactac caacctgtc atcttaacc tggcggtggc cgacctgtgt ttcatcctgt gctgcgtgc cttccaggcc accatctaca cctcgagcgc ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc tcaccatgca cgccagcagc ttcacgctgg ccgctgctc cctggacagg tatctggcca tctcgtaccc gctgcactcc	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1	atgtcgtctg cagagaatgg ttttcaggag catgaagttt ga KGYSPLPGSD CSQIIDSHV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQLQK P KGYLQKEVTD HNVSLACSDI LVFLIGNPME FYSIWNPLT TSSYTLSCKL HTLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFW VTSALVALPL LFAMGTEYPL VNVPSHRLT CNRSSTRHE QPETSNSMIC TNLSSRWTF QSSIFGAFW YLVVLLSVAF MCWNMQVLM KSQKGLAGG TRPPQLRKSE SEESRTARRQ TIIFRLIVV TLAVCWMPNQ IRIRMAAKP KHDWTRSYER AYMLLPFSE TFFYLSVIN PLYTVSSQ FRRFVQVLC CRLSLQHANH EKRLRVHAHS TTDSARFVQR PLIFASRRQS SARTEKIFL STFQSEAEPO SKQSLSLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccgggagct tcccgctcgc gaagaccag acggctgcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggctgctc caggggccgg gaacgcgagc caggcggggc gcgggggagg ctggcacccc gaggcgttca tctgtcccc gctcttcgctg ctcatcttc cgtggggcac cgtggggcac acgctggtgc tggcggtgct gctgcgcgcg ggccaggcgg tcagcactac caacctgtc atcttaacc tggcggtggc cgacctgtgt ttcatcctgt gctgcgtgc cttccaggcc accatctaca cctcgagcgc ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc tcaccatgca cgccagcagc ttcacgctgg ccgctgctc cctggacagg tatctggcca tccgctaccc gctgcactcc	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	ggacaggtgc cccgggagct tcccgctcgc gaagaccag acggctgcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggctgctc caggggccgg gaacgcgagc caggcggggc gcgggggagg ctggcacccc gaggcgttca tctgtcccc gctcttcgctg ctcatcttc cgtggggcac cgtggggcac acgctggtgc tggcggtgct gctgcgcgcg ggccaggcgg tcagcactac caacctgtc atcttaacc tggcggtggc cgacctgtgt ttcatcctgt gctgcgtgc cttccaggcc accatctaca cctcgagcgc ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc tcaccatgca cgccagcagc ttcacgctgg ccgctgctc cctggacagg tatctggcca tccgctaccc gctgcactcc	Homo sapiens

366	7221	Galanin Receptor GalR2	NP_003848.1	<p>cgcgagctgc gcacgcctcg aacgcgctg gcagccatcg ggctcatctg ggggctgctg ctgctcttct ccgggccccta cctgagctac tacgcccaat cgcagctggc caacctgacc gtgtgccatc ccgcgtggag cgccctcgc cgccgcgcca tggacatctg caccttcgtc ttcagctacc tgcctctgt gctgttctc ggctgacct acgcgcgac cttgcgctac ctctggcgcg ccgtcgaccc gggtggcgcg ggctgggtg ccggcgcgcc caagcgcaag gtgacagca tgatctctat cgtggcgcg ctctctgccc tctgtggtat gcccaccac ggctcatcc tctgcgtgtg gttcgccag ttcccgta cgcgcgcca ttatgcgtt cgcatctct cgaccttgt ctctacgcc aactcctcg tcaaccccat cgtttacgcy ctggctcca agcacttcg caaggttc cgacgatct gcggggcct gctgggcccgt gcccaggcc gagcctggg ccgtgtgct gctgcgcgc ggggaccca cagtggcagc gtgtggagc gcaggtccag cgacctgtg cacatgagc aggcggcggg ggccttcgt ccctgcccc gcgcttccc gccatgcac ctcgagccct gtcctggccc gtcctggcag ggcccaagg caggcgacag cctcctgac gttgatgtg cctgaaagca cttagcgggc gcgctgggt gtcacagagt tggagtcatt gttggggac cgtggcg</p>	<p>LRGQAVSTT P ASSFTLAASV NLTVCHPAWS KRKVTMILI VYALVSKHER ALRPCPGASQ</p>	Homo sapiens
367	7246	Orexin Receptor 1	NM_001525	<p>ccctccctca ggaagtgtga ggctgagcc cgaagagacc tgggtgcaag cctccaggca A ccctgaaggc agtggtctga ggctggccc agctccctc ctctccctct gtagagccta ggatgcccc ctgctgcag ggctcctgag ctcctggagc cctcagccac ccagggggc cagatggggg tccccctgg cagcagagag ccgtccctg tgcctccaga ctatgaagat gagtttctcc gctatctgt gcgtgattat ctgtacccaa aacagatga gtgggtcctc atcgacgct atgtggctgt gttcgtcgt gccctgggtg gcaacacgct ggtcgtcctg gccgtgtggc ggaaccacca catgaggaca gtacccaact acttcattgt caacctgtcc ctggctgacg ttctgtgtac tgctatctgc ctgcccggca gcctgctgtt ggacatcact gagtcctggc tgttcggcca tgcctctgc aaggtcattc cctatctaca ggctgtgtcc gtgtcagtg cagtgcctaac tctcagcttc atcgccctg accgctggta tgccatctgc caccactat tgttcaagag cacagcccgg cgggcccgtg gctccatcct gggcatctgg gctgtgtcgc tggccatcat ggtgcccag gctgcagta tggaaatgac cagtgtgctg cctgagctag ccaaccgac acggtcttc tcatctgtg atgaacgctg ggcagatgac ctctatccca agatctacca cagtgtctt ttatgtcta cctacctggc cccactgggc ctcatggcca tggcctatt ccagatattc cgcaagctct ggggcccga gatccccggc accacctcag cactgtgtcg gaactggaag cccccctcag accagctggg ggaacctggag cagggcctga gtggagagcc ccagccccgg ggcgcgcct tcctggctga agtgaagcag atgctgtcac ggaggagac agccaagatg ctgagtgtg tgcgtgtgt cttcgccctc tgtacctgc ccatcagcgt cctcaatgtc cttaagaggg tgttcgggat gttccgcca gccagtgacc gcgaagctgt ctacgcctgc ttcaccttct cccactggct ggtgtacgcc</p>	<p>ILTVDA WHPEAVIVPL FQATYITLDG NALAAIGLIW LVLGLTYART FGQFPLTRAT YALRILSHLV SYANSCVNPI DLHMSEAAG</p>	Homo sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPGAQ MGVPGRREP SPVPPDYDE FLRLWRDYL YPKQYEWVLI AAYVAVFVA P LVGNTLVCLA VWRNHMRIV TNYFIVNLSL ADVLVTAICL PASLLVDITE SWLFGHALCK VIPYLOAVSV SVAVLTLSEI ALDRWYAICH PLLFKSTARR ARGSSILGIWA VSLAIMVPOA AVMECSSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWK RPSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML MVLLVFALC YLPISVLNVL KRVFGMFROA SDREAVYACE TFSHWLVYAN SAANPIIYNF LSGKFRQFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggacgtagc ttctctctcc tgggtgtcatt A gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatcttccc ggtgcaacat cgctgtaaa gacagcaaa gacccgcaga agttgcccg cagaagactc cggaggcatt ggctcagtaa cttttcacgt catcttctgc tcgggagccc ctcttagcct ctccgcgcag ccttccccc cgcaaatcac cagtgctcat ggggcaggcg gagaggagct tgcagcattg agcggaaccg gacttgagcc cgtgatgtcc ggcaccaaat tggaggactc cccccctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agcccttttt aaaccccc gactatgac acgaggaatt cctgcggtac ctgtggagg aatacctgca ccgaaagaa tatgagtggg tctgagtcgc cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctgggtt gtgtggcagt gtggaagaa caccacatga ggaaggtaac caactacttc atagtcaatc ttctctggtc tgatgtgctc gtgaccatca cctgccttcc agccacactg gtcgtggata tcactgagac ctggtttttt ggacagtcctc ttggcaaat gattccttat ctacagacgg tgcggtgtc tgtgtctgtc ctacacatga gctgtatcgc ctbgatcgg tggtatgcaa tctgtcacc ttgtgatgtt aagagcacag caaagcgggc ccgtaacagc attgtcatca tctggattgt ctcctgcatt ataagtattc ctcaggccat cgtcatggag tgcagcacg tgtccccagg cttagccaat aaacccacc tctttacggt gctgtgatgag cgctgggtg gtgaaattta tcccaagatg taccacatct gttcttttct ggtgacatac atggcaccac tgtgtctcat ggtgttggtc tatctgcaa tatctcgcaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagagaaaaa ggaagcccc gtagcctgtt tcacagctc gagggccagg acagccaacg aagtcgccga tgagcgtgtt ggcggctgaa ataaagcaga tccgagccag aagaaaaa ctaaatgtgc taaagagagt atttgggatg tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgcccata ctgaagacag agagactgtg tatgcctgtt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt atttataatt ttctcagtg aaaatttcga gaggaattta aagctgcgtt ttctgtctgt tgccttgag ttaccatcg ccaggaggat cggctcacca ggggacgaac tagcacagag agccgggaat ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p> aactttgata acatatcaaa actttctgag caagttgtgc tcaatagcat aagcacactc ccagcagcca atggagcagg accacttcaa aactgttaga atattattc atatgacaag gatacctgag taaaactatc ctttttaaaa tcaactggga cagaaaatttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaa aaaaaaaa aaa MSGTKLEDSP PCRNWSSASE INETQEPFLN PTYDDEEFL RYLMREYLHP KEYEWVLIAG P YIIVFVALI GNVLCVAVW KNHMRTVTN YFIVNLSLAD VLVITITCLPA TLVVDITETW FFQSLCKVI PYLQTVSVSV SVLTSLSCIAL DRWYAICHPL MFKSTAKRAR NSIVIWIWV CIIMIPQAI MECSTVFPGL ANKTTLETVV DERWGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRWKPLQ PVQPRGPQ PTKSRMSAVA AEIKQIRARR KTARMLMVVL LVFAICYLPI SILNVLKRVF GMFAHTEDRE TVYAWFTFSH WLWYANSAAN PIIYNFLSGK FREEFKAES CCCLGVHHRQ EDRLTRGRS TESRKSLLTQ ISNFDNISKL SEQVLTSS TLPANGAGP IQNW ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctcattgc taatggctac gtctgtgtgg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc ttttggatca ccttgccact ttggattgct tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gccttcttgg gegtcatcac ttataaccgc ttccaggcag taactggcc catcaagact ggtcaggcca acaccgcaa gcgtggcacc tctttgtcct tggctcattg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctcttctgc aactggta tcatccgtac cttgctcatg cagccgtgc agcagcagc caacgtgaa gtcaagcgc gggcgtgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctcct tagcaccaac tgtgtcttag accctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg tgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg ctte MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYQNO GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDAGSGNV TRCFEHEYKQ SVPVLIHIF IVFSFLLVEL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHOA INDAHQVTLIC LLSTNCVLDLP VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct ctcctctgct cccgcccgc tgtcaagctg tgttctagcg gccgaggac A cgagggggc taagaaaagg ggcgcccag catgcagagg caaaaaggc ctgagggaacg gggtcccccgt cgccagtgc gaggcaggag gtcggagcca caagtgggg gctgggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag gccaggctg ctgggggacgc </p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctcattgc taatggctac gtctgtgtgg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc ttttggatca ccttgccact ttggattgct tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gccttcttgg gegtcatcac ttataaccgc ttccaggcag taactggcc catcaagact ggtcaggcca acaccgcaa gcgtggcacc tctttgtcct tggctcattg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctcttctgc aactggta tcatccgtac cttgctcatg cagccgtgc agcagcagc caacgtgaa gtcaagcgc gggcgtgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctcct tagcaccaac tgtgtcttag accctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg tgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg ctte MADMLFLITL PLWIVYQNO GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDAGSGNV TRCFEHEYKQ SVPVLIHIF IVFSFLLVEL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHOA INDAHQVTLIC LLSTNCVLDLP VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct ctcctctgct cccgcccgc tgtcaagctg tgttctagcg gccgaggac A cgagggggc taagaaaagg ggcgcccag catgcagagg caaaaaggc ctgagggaacg gggtcccccgt cgccagtgc gaggcaggag gtcggagcca caagtgggg gctgggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag gccaggctg ctgggggacgc </p>	Homo sapiens
372	8436	Platelet- Activating Factor Receptor	NP_000943.1	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctcattgc taatggctac gtctgtgtgg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc ttttggatca ccttgccact ttggattgct tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gccttcttgg gegtcatcac ttataaccgc ttccaggcag taactggcc catcaagact ggtcaggcca acaccgcaa gcgtggcacc tctttgtcct tggctcattg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctcttctgc aactggta tcatccgtac cttgctcatg cagccgtgc agcagcagc caacgtgaa gtcaagcgc gggcgtgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctcct tagcaccaac tgtgtcttag accctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg tgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg ctte MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYQNO GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDAGSGNV TRCFEHEYKQ SVPVLIHIF IVFSFLLVEL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHOA INDAHQVTLIC LLSTNCVLDLP VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct ctcctctgct cccgcccgc tgtcaagctg tgttctagcg gccgaggac A cgagggggc taagaaaagg ggcgcccag catgcagagg caaaaaggc ctgagggaacg gggtcccccgt cgccagtgc gaggcaggag gtcggagcca caagtgggg gctgggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag gccaggctg ctgggggacgc </p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Ls8509	NM_007223	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctcattgc taatggctac gtctgtgtgg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc ttttggatca ccttgccact ttggattgct tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gccttcttgg gegtcatcac ttataaccgc ttccaggcag taactggcc catcaagact ggtcaggcca acaccgcaa gcgtggcacc tctttgtcct tggctcattg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctcttctgc aactggta tcatccgtac cttgctcatg cagccgtgc agcagcagc caacgtgaa gtcaagcgc gggcgtgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctcct tagcaccaac tgtgtcttag accctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg tgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg ctte MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYQNO GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDAGSGNV TRCFEHEYKQ SVPVLIHIF IVFSFLLVEL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHOA INDAHQVTLIC LLSTNCVLDLP VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct ctcctctgct cccgcccgc tgtcaagctg tgttctagcg gccgaggac A cgagggggc taagaaaagg ggcgcccag catgcagagg caaaaaggc ctgagggaacg gggtcccccgt cgccagtgc gaggcaggag gtcggagcca caagtgggg gctgggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag gccaggctg ctgggggacgc </p>	Homo sapiens

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374	8509	G Protein-Coupled Receptor Ls8509	NP_009154.1	<p> taccatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acagagagag ggagcaggag cactctaagg gaattc MGHNGSWISP NASEPHNASG AEAAGVNRSA LGFGEAQLY RQFTTVQVV IFIGSLLGNE P MVLWSTCRRT VFKSVTNRFI KNLACSGICA SLVCVFFDII LSTSPHCWW IYTMFLCKVV KFLHKVFCVS TILSFPAIAL DRYYSVLVPL ERKISDAKSR ELVMYIWAHA VVASVPVFAV TNVADIYATN TCTEWSNSL GHLVYVLVYN ITTVIVPVV VFLILIRL ALSASQKKKV IIAALRTPQN TISIPYASQR EAEHLATLLS MVMFILCVH PYATLVVYQT VLNVPDTSVF LLLTAVWLPK VLLANPVLF LTVNKSVRKC LGTILVQLSH RYSRNVVST GSGMAEASLE PSIRGSQLL EMFHIGOOQI FKPTEDDEES EAKYIGSADF QAKEIFSTCL EGEQGPQFAP SAPPLSTVDS VSQVAPAPV EPETFPDKYS LQFGFPGFEL PPQWLSETRN SKRLLPLPLG NTPEELIQTK VPKVGRVERK MSRNKVSIF PKVDS </p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p> ttgataggga tagaaacaca ttggcgctg tctatagtta acaagatgct gttacattcc A ttgcctcact agctctgag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc ttgatatttg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaacttgca ttgatattct gggttctgtt tcatttttta gggctcgaag agcacgctca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgcctcac acaaggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaaat ggaagtttcc ctaaaaccac cagcatctaa tacaaccagc acaaagaaca acaactcggc atttttttac tttaggtcct gtcaacctcc tctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tggcctttt tggaaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatttccac cagcatactg attgccaatc tctccctctc tgataccttg gtgtgtgtca agaatttccac ttttactatc atctacactc tgatggacca ctggatattt ggggatacca tgtgcagact cacatcctat gtgcagagtg tctcaatctc tgtgtccata tctcacttg tattcactgc tgtcgaaaga tatcagctaa ttgtgaacc cgtggcgtgg aagcccagtg tgactcatgc ctactggggc atcacactga ttggcgtgtt tcccttctg ctgtctattc ccttcttct gtcctaccac ctcactgatg agccctctc caacctctc ctccccactg accctacac ccaccaggtg gcctgtgtgg agaactggcc ctccaaaaag gaccggctgc tcttcaccac ctcccttttt ctgctgcagt atttgttcc tctaggcttc atcctcatct gctacttgaa gattgttattc tgcctccgca ggagaaatgc aaaggtagat aagaagaagg aaaaatgagg ccggtcctaat gagaaagaaga ggatcaaac aatgttgatt tccatcgtgg tgacctttgg agcctgctgg ctgccccgaa tatcttcaat gtcatctttg actggtatca tgaggtgctg atgagctgcc accacgacct ggtatttgtta gttggccact tggttgctat ggtttccaca tgtataaacc ctctctttta tggctttctc acaaaaaatt tccaaaagga cctggtagtg cttattcacc actgctgggtg cttcacacct caggaagaat gtgaaaaat tgccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataaacac aggtatatga aaattgataa tgctgaagct ctcttgaat gggagctgga caggtaatgg tgggaatagg gcaagatgca gaaagaagaa accagaacca aaatagcaa ctttataccc acttttctt taggctaaga ctgcctgtct catatgtcta tccaacacac cctccaacat acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacacac ctgcccggcca tcatttgtgg </p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tggtcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatatgcct agtaaaaaca ctgctatacc tccttagcac tgagaat mevslnhpas nttstknns affyfesccp pspallllci aytvvlivgl fgnslslili P fkkrkagnf tsilianlsl sdtlvcvml hftiiytimd hwifgdtmcr ltsyvqsvsi svsifslvft averyqlivn prgwkpsvth aywgitiwl fslslsiff lsyhltdepf rnslsptdly thqvacvenw pskkdrllft tsflilqyfv plgfillcyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriiss msslgtimrc cattccacc ctctctctt taataagcag gagcgaataa gacaaattcc aaagaggatt A gttcagtca agggaatgaa gaattcagaa taattttgg aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgcccag ctctggctt ttgaaaaatga tgattgtcat gtgacctgg ccattgatatt tacctagct ctgtcttatg gagctgtgat cattctgggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatgtt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttgttgaggc gatgtgaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagaccaa taatagacat gcttatgtag gtattgctgt gatgtgggtc ctgtctgtgg ctctctctt gcctttcctg atctaccaag taatgactga tgagccgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgcttta taccactctc ctcttggtgc tgcagtattt tgggtccactt gctttatat ttatttgcta ctcaagata tatatacgcc taataaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaaa ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgcagtc tgctggctcc ctcttaccat cttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccactgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggtcccgat gatcttgtt taataacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatggggttg aaatcatttg aaaaactga agattttctt gcttgcttt ttactgcttt tgtgtagtgt gtcataatta catttggaac aaaagggtg ggccttggg tcttctggaa atagtgttga ccagacatct tttaagtgtt ttttgaat ttatgcatat aatataaga ctittatct gacttattg gaatgaaatt tctttaagt attacgatgc gctgacttca gaagtacctg ccattccaata cgggtcattag attgggtcat ctgtattaga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgta caatagtaac agtatgcaaa agcagcattc aggagccgaa agatagcttt gaagtcatc agaagtgggt tgaggtttct gttttttggt ggtttttgtt tgtttttttt tttttcacc ttaaggggagg ctctcatttc ctccccactg attgtcactt aaatcaaat	Homo sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tggtcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatatgcct agtaaaaaca ctgctatacc tccttagcac tgagaat mevslnhpas nttstknns affyfesccp pspallllci aytvvlivgl fgnslslili P fkkrkagnf tsilianlsl sdtlvcvml hftiiytimd hwifgdtmcr ltsyvqsvsi svsifslvft averyqlivn prgwkpsvth aywgitiwl fslslsiff lsyhltdepf rnslsptdly thqvacvenw pskkdrllft tsflilqyfv plgfillcyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriiss msslgtimrc cattccacc ctctctctt taataagcag gagcgaataa gacaaattcc aaagaggatt A gttcagtca agggaatgaa gaattcagaa taattttgg aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgcccag ctctggctt ttgaaaaatga tgattgtcat gtgacctgg ccattgatatt tacctagct ctgtcttatg gagctgtgat cattctgggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatgtt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttgttgaggc gatgtgaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagaccaa taatagacat gcttatgtag gtattgctgt gatgtgggtc ctgtctgtgg ctctctctt gcctttcctg atctaccaag taatgactga tgagccgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgcttta taccactctc ctcttggtgc tgcagtattt tgggtccactt gctttatat ttatttgcta ctcaagata tatatacgcc taataaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaaa ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgcagtc tgctggctcc ctcttaccat cttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccactgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggtcccgat gatcttgtt taataacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatggggttg aaatcatttg aaaaactga agattttctt gcttgcttt ttactgcttt tgtgtagtgt gtcataatta catttggaac aaaagggtg ggccttggg tcttctggaa atagtgttga ccagacatct tttaagtgtt ttttgaat ttatgcatat aatataaga ctittatct gacttattg gaatgaaatt tctttaagt attacgatgc gctgacttca gaagtacctg ccattccaata cgggtcattag attgggtcat ctgtattaga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgta caatagtaac agtatgcaaa agcagcattc aggagccgaa agatagcttt gaagtcatc agaagtgggt tgaggtttct gttttttggt ggtttttgtt tgtttttttt tttttcacc ttaaggggagg ctctcatttc ctccccactg attgtcactt aaatcaaat	Homo sapiens

378	9421	Neuropeptide Y Receptor Type 1	NP_000900.1	MNSTLFSQVE LIIIIILKQKE CVSITVSIFS DEPFQNVTL RNNMDKMRD LFLICHLTAM KTSLKQASPV	atataaagac agagagaag agagtaatta tgaattgatg tctgggtctaa ttttccatcg aggaagtaac acacaaaaac tgccgtctta ctaatttcac ttaaagaaca taaaaggcgc tgagtttcac nhsvhsnfse mrnvtniliv lvliaverhq aykdkyvcfd nkysrsetkr istcvnpiFY gflnkfnqrd afkkinndd	atacttctca cagctcccca atttaataaa gtcaagagat tatgtactcg agcagtgctc accaaggtac tgcaataact tgccgtctta ctaatttcac agacatactt gacattttat ttttctcat knaqliafen nlsefddlva liinprgwrp qfpdsrhrls inimllsiv gflnkfnqrd afkkinndd	gtatggagaa catttggtga attgctgcaa ttttacagac cgcttacaat tgattttaac gaattattac tcatttaact tactgaata agcctcagaa tacagataaa taaaatcaat cccatgactt ddchlpami ftlalaygav tlmdhwfge viwvlavass ytlldlvlyq afavcwlplt lqfffnfcdf rsrdddyeti	ttgggcaccc cctgacaaca atagctaaa tggtcagtg ttgtagaaa tttcaatgtc tttaccctagc tgtataaaat tgtgtgtcat tcatttgag gtattacatg ctttttctga gt iilgvsgnla p amcklnpfvq lpfliyqvmt yfkiiyrlkr qiiatcnhnl amsthtdvs	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	NM_004382	agccgagcga cttctggggc ctggccagca gcccgcgtga cactaccatg ctggtggcct cactggaacc accatgagcc tacaactact acagccatcg ggctgggggtg aatgagaagt cccatgatcc atgaccaagc gccactctgg gggaggagatg cagggcttct cggaagaggt atgtccatcc	gcccaggat tgaaccccg acatctcaga attactccga tcgcagtcac ttgtccctct tcactccgc ccgaggtcca tccatgtgac tgctcaccta tgcccttccc gctgggttgg tggtccctgt tcggggcatc tgctgctgcc gggtctcccg ttgtgtctgt ggcaccgggtg ccacctccc	gggaggcgc ctctgcctcc caatggctac gtgccaggag catcaactac tctgcggctc cttcatcctg ccagagcaac caacttcttc ctccactgac catcattgtg caaaaggcct gatcaatttc caccacgtct cctcctgggc ggtcgtcttc gttcgtcttc gttcacttgt gcaggacaag aacccgtgtc	gtctcgtcaa agcactcgca tgcccaatgg aggagaaaa gtatctccct ggcgctgcg aaacatcatc gggccagcta gcaggttgg gcagggtg ctacctgcac catctgcatt ttgggaagct ccgactacat tcaacatcgt agtacaggaa tgctgttctt actccttctt gtgaggtccg gtgcccaggt gcatcaagca	ggcccttctc gagcctgtcc cagctgggcc aagcaagggtg ggcgccctc aaacatcatc gggccagcta gcaggttgg gcagggtg ctacctgcac catctgcatt ttgggaagct ccgactacat tcaacatcgt ggctgtgaaa cgtcaatccc ggaatccttc ttctgccatc ggcccgtgcc gtccacagca	Homo sapiens

380	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	MGHPQLRLV KALLLLGLNP VSASLDQHC ESLSASNIS DNGYRECLAN GSWAARVNYS P ECQEILNEEK KSKVHYHVAV IINYLGHGIS IVALLVAFVL FLRLRSIRCL RNIIHWNLLIS AFILRNATWF VVQLTMSPEV HQSNVGCRL VTAANYFHV TNFFWMFEGE CYLHTAIVLT YSTDLRLKWM FICIGWGVF PIIVAWAIGK LYDNEKCFW GKRPGVYTDY IYQGPMLVL LINFIFLNI VRILMTKLRA STTSETIQYR KAVKATLVLL PLLGITMYLF FVNPGEDEVS RVFIYFNSF LESFQFFVS VFYCFNLSEV RSAIRKRWRH WQDKHSIRAR VARAMSIIPTS PTRVSFHSIK QSTAV	Homo sapiens
381	10457	Frizzled-2	NM_001466	cgagtaaaagt ttgcaaaag ggcggggagg cggcagccgc agcgaggagg cgggcggggaa A gaagcgcaagt ctccgggttg gggcgggggg cggggggggc gccaaaggag cggtggggg gcggcgcca gcatcgcc cgcagcgcc ctgccccgc tgctgctgc gctgctgctg ctgccccgc cgggcgccg cagttccac ggggagaagg gcatctccat ccgggaccac ggcttctgcc agcccatct catcccgctg tgcacggaca tgcctataa ccagaccatc atgcccaacc ttctgggcca cagaaaccag gaggacgcag gcttagaggt gccaccagttc tatccgttg tgaagtgca gtgctcgcc gaactgcgt tcttctctg ctcacatgtac gcaccgtgt gcaccgtgt ggaacaggcc atccccgct gccgctctat ctgtgagcgc gcggccagg gctcggaag cctcatgaac aagttcggt ttcagtggcc cgagcgctg cgctgcgag acttcccg cccagggcc gagcagatct gctcgggcca gaaccactcc gaggacgag ctcccgct actcaacc gcgcgcgc cggaactgca gccgggtgccc gggggcacc cggtggccc gggcggggc ggcgctccc cgcgctacgc cagctggag cacccttcc actgcccgc gctcctcaag gtgccatct atctcagcta caagtctctg ggcagcgtg attgtgctg cccctgcga cctgcgcgc ccatgggttc catgttcttc tcacaggag agcgcgtt cgcgcgctc tggatcctca cctggtcgt cgtgtgctgc gcttccact tctcactgt caccacgtac ttggtagaca tgcagcgctt ccgtaccca gagcgcccta tcattttct gtcgggctgc tacaccatgg tgcggtggc ctacatcgcg ggcttcgtgc tccaggagcg cgtgggtg cgcagcgct tctccaggga cggttaccgc acggtggtgc agggcacc aa gaggagggc tgcaccatcc tcttcatgat gctctacttc tcagcatgg ccagctccat ctggtgggtc atcctgtgc tccactggtt cctggcagcc ggcatgaagt gggggcaca ggcctcag gccaacttc agtacttcca cctggccgc tggccgtgc cgccgtcaa gaccatcac atcctggcca tgggccagat cgacggcgac ctgctgagcg gctgtgctt cgtaggcctc aacagcctgg acccgctgcg gggcttcgtg ctagcgcgc tctcgtgta cctgttcac ggcacgtct tctcctggc cggttctg tcgtcttcc gcatccgac catcatgaag cagacggca ccaagaccga aaagtggag cggtcatgg tgcgcatcg cgtcttctc gtgcttaca cagtgcgcg caccatcgtc atcgcttct acttctaca gaggccctc cgcgagcact gggagcgctc gtgggtgagc cagcactgca agagcctgc catcccgct ccggcgact acacggcg catgtcgccc gacttcagg tctacatgat caaatacct ctagcgtca tctgtggcat cagctcgggc ttctggatct ggtcgggcaa gacgtgcac tctgtgagga agttctacac tcgctcacc aacagccgac acggtgagac caccgtgta gggacggccc caggccggaa ccgcgcggcg cttctctccg ccgggggtgg ggccttaca gactcgtat tttattttt taaataaaa acgatcgaac ccatttccact tttaggttg tttttaaaag agaactctct gcccaacacc ccc	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	MRPRSALPRL LLPLLLPAA GPAQFHGEKG ISIPDHGFCQ PISIPLCTDI AYNQTIMPNL P LGHTNQEDAG LEVHQFYPLV KVQCSPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEQIC VQONHSEDGA PALLTTAPPP GLQPGAGGTP GGPGGGGAPP RYATLEHPEH CPRVLKVPY LSXKFLGERD CAAPCEPARP DGSMMFFSQEE TRFARLWLT WSVLCCASTE FTVTYLVDM QRFRYPERPI FLSGICYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMPLYFFSMA SSIWVILSL TWFLAAGMKW GHEAIEANSQ YFHAAWAVP AVKTITILAM QGIDGDLISG VCFVGLNSLD PLRGFVLAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDTG KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQAFREHW ERSWVSQCHK SLAIPCPAHY TPRMSPDFTV YMIKYLMTLI VGITSGFWIW SGKTLHSWRK FYTRLTNSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctccg cggccggccc acctggcggg A acttcctcag cggccacggc ggcctgctc tccttcagca ccgtggcgac cgcggcgctg gggaacctga gcgacgcaag cggaggcggc acagctggc ctcccggctg cggcggcctt ggcgggtccg ggcagcgcg gcaggcggg gcggcggtga ggcggccgct agcccccggag gcggcgccgc tgcgtgcga cggagctgca gtggcgccc aggcgctcgt cctcctgctc atcttcctgc tcttagcct tggcaactgc gcggtagtg gggtagtgt gaagcacgg cagctccgca ccgtcaccaa cgccttcac ctgtcgtgt cctatcgga tctgctcac gcgtgctct gcccgcccgc cgccttcctg gacctctca ctcggcccgc ggggtcggcg ctgcgctgc ccggggggc ctggcgggc ttctcgggc caagccgctt cttcagctcg tgcttcggca tgcgtgacgc tcagcgtggc gctcactcgc ttggaccgtt actgcgtat cgtcggccgc cgcgggagaa gatcggccgc cgcggcggc tgcagctgct ggcggcgccc tggtgacgg ccctgggctt ctcctggcc tgggagctgc tcggggcgcc cggggaactc gcggcgggcc agagcttcca cggctgcctc tacggacct ccccggacc cgcgcagctg ggcggccct tcagcgtggg gctgggtgg gctgctacc tgtgccccct cctgctcctc tgcttctgcc actaccacat ctgcaagacg gtgcgctgt cggacgtgcg cgtgcggccg gtgaacacct acgcgcgct gctgcgttct tcagcgaggt gcgcacggcc accaccgtcc tcacatga	Homo sapiens
384	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	NP_072093.1	MALLGSQHS APSAAGPPGG TSSAATAAVL SFSTVATAAL GNLSDASGG TAAAPGGGL P GGGAAREAG AAVRRPLGPE AAPLLSHGAA VAQALVLLI IFLLSSLGNC AVMGVIVKHR QLRTVTNAFI LSLSLDLLT ALLCLPAAFL DLFTPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLLRY RRPPEKIGR RRALQLLAGA WLTALGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGFPSVGLV ACYLLPFLI CFCHYHICKT VRLSDVRVRP VNTYARVLR SARCARRPPS SS	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaat ctccaccttc agactggtag gctcctccag A aagccatcag acaggaagat gtgaaaatcc ccagcactca tcccagaatc actaagtggc acctgtcctg ggcctcctg ccagacaga cctcattgtt cctctgtgg aatacctccc caggagggca tcttgattt ccccttgca acccaggta gaagtctcat cgtcaaggtt gtttcatctt tttttctctg tctaacagct ctgactacca cccaaccttg aggcacagt aagacatcgg tggccactcc aataacagca ggtcacagct gctcttctgg aggtgtccta caggtgaaaa gccagcgac ccagtcagga tttaagtta cctcaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tggaaagggtg aagatcttag taattacagt
tacagctcta ccctgcccc ttcttacta gatgagccc catgtgaacc agaattccctg
gaaatcaaca agtattttgt ggtcattatc tatgcccctgg tattcctgct gagcctgctg
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tggcactcta tgttctaaga agtgaatac tacactccag tgagacagct ctgcatactc
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tgtgaccact gcagaagaca gtatggcagc ttctctcaa acttcagaca tagaattaac
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aaccatatt tttacacca tattcatagc agcttattca caagaccaa aggcagaag
caaccctaat gttcatcaat gaatgaatga atggctaagc aaaaatgtgat atgtacctaa
cgaagtatcc ttcagcctga aagaggaatg aagtaactcat acatgttaca acacggagca
acctgaaaa ctttatgcta agtgaataa gccagacatc aacagataaa tagtttatga
ttccacctac atgaggtact gagagtgaac aaatttcatg agacagaaa cagaacagt
attaccaggg actgagggga ggggagcatg ggaagtacg gtttaattgg cacaggggtt
atgtttagga tgtgaaaaa gtctgcaga taacagtag tgatagtgt accgcaatgt
gacttaatgc cactaaattg acacttaaaa atggtttaaa tggtaaat tgttatgtat
atattatc aatttaaaaa aaaacctgag ccccaaaagg tattttaac accaaggctg
attaaaccaa ggctagaacc acctgcctat atttttgtt aaatgatttc attcaatatc
tttttttaa taaaccattt ttacttgggt gtttat

386	14198	Interleukin-8 Receptor B	NP_001548.1	MEDFNMSDS	FEDFWKGEDL	SNYSYSSTIP	PFLDDAAPCE	PESLEINKYF	WIIYALVEL	P	Homo sapiens
				LSLLGNSLVM	LVILYSRVGR	SVDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFLCK		
				VVSLLEKVN	YSGILLIACI	SVDRYLAIVH	ATRTLTKRY	LVKFICLSIW	GLSLLALPV		
				LLFRRTVYSS	NVSPACYEDM	GNNTANWRML	LRILPQSEGF	IVPLLIMLFC	YGFTLRTLFX		
				AHMQRHRAM	RVIFAVVLIF	LLCWLPLNLV	LLADTLMRQ	VIQETCERN	HIDRALDATE		
				ILGILHSCLN	PLIYAFIQK	FRHGLLKILA	INGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
387	14641	Calcitonin Receptor	NM_001742	cagaattcca	ggacaaaagag	atcttcaaaa	atcaaaaatg	aggttcacat	ttacaagctt	A	Homo sapiens
				gtgcttgcca	ctgtttcttc	ttctaaatca	cccaaccaca	attcttcctg	cttttccaaa		
				tcaaacctat	ccaacaatag	agcccaagcc	attcttttac	gtcgtaggac	gaaagaagat		
				gatggatgca	cagtacaaat	gctatgaccg	aatgcagcag	ttaccgcgat	accaaggaga		
				aggtccatat	tgcaatcgca	cctgggatgg	atggctgtgc	tgggatgaca	caccggctgg		
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389	16041	C-C Chemokine Receptor 6	NM_004367	<p> MRFTTSRCL ALFLLNHPT PILPAFNSQT YPTIEPKPL YVGRKKKMD AQKCYDRMQ P QLPAYQGEF YCNRTWDGWL CWDDTPAGVL SYQFCPDYFP DFDPSEKVTX YCDEKGVWFK HPENNRTWSN YTMCAFTPE KLNNAVLYY LAIVGHSLSI FTLVISLGIF VFRSLGCQR VTLHKMFLT YILNSMIII HLVEVPNGE LVRRDPVSK ILHFFHQYMM ACNYFWMLE GIYHLTLIV AVTEKQRLR WYLLGWGFP LVPTTIHAT RAVYFNDNCW LSVETHLLYI IHGPVMAALV VNFELNLIV RVLVTKMRET HEASHMYLK AVKATMILVP LLGIQFVFP WRPSNMGLK IYDVMHSLI HFQGFVATI YFCHQELRNE PANNQGEESA EIIPLNIEQ ESSA PSNRSARAAA AAAGAGDIPI YICHQELRNE PANNQGEESA EIIPLNIEQ ESSA caaacgttcc caaatcttcc cagtcggctt gcagagactc cttgctcca gagataacc A agaagctgca tcttattgac agatggtcat cacattggtg agctggagtc atcagattgt ggggcccgga gtgaggtga agggagtga tcagagcact gcctgagagt cacctctact ttcctgtac cgtgctgtg agctgaagg ggtgaacca tacactcctt ttctacaac cagcttgcat ttttctgcc caaatgagc ggggaatca tgaatttcag cgaattttc gactccagt aagattattt tgtgtcagtc agatttcca ggctatttgc accgattgag atgttactgt gctccttga ggaggtcagg cagtttcca ggctatttgc accgattgag tactccttga tctgtgtctt tggcctcctg gggaatattc tgggtgtgat caccttgcct ttttataaga agggcaggtc tatgacagac gtctatctct tgaacatggc cattgcagac atcctctttg ttcttactct cccattctgg gcagtgagtc atgccactgg tgcgtgggtt ttcagcaatg ccacgtgcaa gttgctaaaa ggcattctatg ccatcaact taactgcggg atgctgctcc tgacttgcat tagcatggac cgggtacatg ccattgtaca ggcgactaag </p>	Homo sapiens

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392	16599	Smoothened	NP_005622.1		Homo sapiens
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TLLIWRRTWC	RLTQSDDEP	KRIKSKMIA	KAFSKRHELL	QNPQSELSFS	MHTVSHDGPV
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393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQAW TLVSNPFCPE PSPPDPLP SAPAPVAWAH GRRQGLPIH SRTNLMDEL MDADSD ^F atggctgca acagcagtc ccttgaggt tacacatacc tgctgctgaa caccagcaac A gcctcagact cggggtccac ccagttgcc gcaccctca gcatctcctt ggccatagtg atgctgtga tgaccgtgt ggggttcttg ggcaacactg tggtctgcat catcgtgtac cagagcccg ctagcgtct gcacataac ccacctggg ccacctggc cttctccgac atcatgctg cctctgctg catgccctc accgctgca cctcatcac cgtgcgctg cactttggg accactctg ccgcctctca gccacgctc actgggtttt tgcctggag ggcgtggcca tctgtctcat catcagctg gaccgttcc tcatcctg ccagcgccag gacaagctga accgcgcag ggccaagtg atcatcgcg tctcctgggt gctgtcctc tgcatcgcg ggccctcgct cagggtctgg acgtggtg agtgccggc gcgggcccc cagtgcgtg tgggctacac ggagctccc gctgaccgc cactctggt cactctggtg gtggccgtg tcttcgctg ctttggtgc atgctgtgc cctacatg cactctcaac acggtccgca agaaccgct gcgctgcac aaccgtgag cagcctgga cctgcggcag ctcaccagg cgggctcg cgcctgcag cggcagcaac agtcagcgt gacttgagc ttcaagacca aggcctcac caccctctg atcctcttg tggcttct cctctgctg ctgcccact cgtctacag cctcctgt cgtgtctg tggttagcc agcgtttta ctgcggttc tcttctacg ccaccagcac ctgcgtcctg tggttcagtt acctcaagtc cgtcttcaac cccactgct actgctggag aatcaaaaaa tcccgagag cctgcataga gttgctgccc cagacctcc aatcctccc caagtgctt gagcgatcc gaaggagaat ccagccaagc acagtacg tgtgcaatga aaacagctc gcggttag 51 MACNSTSLEA YTYLLNTSN ASDSGTQLP APLRISLAIV MLLMTVVGFL GNTVVCIIIVY P QRPAMRSAIN LLLATIAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCLRS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRAKV IIAVSWLSF CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVYVTLV VAVFFAPFGV MLCAYMCIIN TVRKNVAVRH NQSDSLDLRQ LTRAGLRRLQ RQQQSVSDL S FKTKAFTTIL ILFVGFSCLW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVVVCNENQS AV ggctctatga cgtgctattg aacacggcag agcctgttgg tgacctgca acaggagccc A tccagtcaat actgattgaa ttactcaag ctgcctctct gcaaatgta gcactacagg acgtcgggac tgggcatttc cttccaacat ggcgcacat gcctctccgc agccactcgc cactgagat gccgattctg agaatagcag cttctattac tatgactacc tggatgaagt ggccttcag ctctgcagga aggatgcagt ggtgtccttt ggcaaatct tctctccagt ctctatagc ctgatttttg tgtgggct cagcgggaac cttctcttc tcatggtctt gctccgtac gtgcctgca ggcgaggt tgagatctat ctgctgaatc tggccatctc caaccttctg tttctggga cactgccct tccgtggcct cccgtggct ggcatgggt cttcgggagt tcttgtgca agatggtgag cactcttat actattaact ttacagtg catcttttc attagctgca tgagcctgga caagtacctg gagatcgttc atgctcagcc ctaccacagg ctgaggaccc ggcccaagag cctgctcctt gctaccatag tatgggctgt gtccctggc gtctccatcc ctgatgtgt ctttgtacag acacatgaaa atcccaagg tgtgtggaac tgccacgcag atttcggcg gcattggacc atttggaagc tcttctccg	Homo sapiens
394	17250	G Protein- Coupled Receptor GPR45	NP_009158.1	atggctgca acagcagtc ccttgaggt tacacatacc tgctgctgaa caccagcaac A gcctcagact cggggtccac ccagttgcc gcaccctca gcatctcctt ggccatagtg atgctgtga tgaccgtgt ggggttcttg ggcaacactg tggtctgcat catcgtgtac cagagcccg ctagcgtct gcacataac ccacctggg ccacctggc cttctccgac atcatgctg cctctgctg catgccctc accgctgca cctcatcac cgtgcgctg cactttggg accactctg ccgcctctca gccacgctc actgggtttt tgcctggag ggcgtggcca tctgtctcat catcagctg gaccgttcc tcatcctg ccagcgccag gacaagctga accgcgcag ggccaagtg atcatcgcg tctcctgggt gctgtcctc tgcatcgcg ggccctcgct cagggtctgg acgtggtg agtgccggc gcgggcccc cagtgcgtg tgggctacac ggagctccc gctgaccgc cactctggt cactctggtg gtggccgtg tcttcgctg ctttggtgc atgctgtgc cctacatg cactctcaac acggtccgca agaaccgct gcgctgcac aaccgtgag cagcctgga cctgcggcag ctcaccagg cgggctcg cgcctgcag cggcagcaac agtcagcgt gacttgagc ttcaagacca aggcctcac caccctctg atcctcttg tggcttct cctctgctg ctgcccact cgtctacag cctcctgt cgtgtctg tggttagcc agcgtttta ctgcggttc tcttctacg ccaccagcac ctgcgtcctg tggttcagtt acctcaagtc cgtcttcaac cccactgct actgctggag aatcaaaaaa tcccgagag cctgcataga gttgctgccc cagacctcc aatcctccc caagtgctt gagcgatcc gaaggagaat ccagccaagc acagtacg tgtgcaatga aaacagctc gcggttag 51 MACNSTSLEA YTYLLNTSN ASDSGTQLP APLRISLAIV MLLMTVVGFL GNTVVCIIIVY P QRPAMRSAIN LLLATIAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCLRS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRAKV IIAVSWLSF CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVYVTLV VAVFFAPFGV MLCAYMCIIN TVRKNVAVRH NQSDSLDLRQ LTRAGLRRLQ RQQQSVSDL S FKTKAFTTIL ILFVGFSCLW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVVVCNENQS AV ggctctatga cgtgctattg aacacggcag agcctgttgg tgacctgca acaggagccc A tccagtcaat actgattgaa ttactcaag ctgcctctct gcaaatgta gcactacagg acgtcgggac tgggcatttc cttccaacat ggcgcacat gcctctccgc agccactcgc cactgagat gccgattctg agaatagcag cttctattac tatgactacc tggatgaagt ggccttcag ctctgcagga aggatgcagt ggtgtccttt ggcaaatct tctctccagt ctctatagc ctgatttttg tgtgggct cagcgggaac cttctcttc tcatggtctt gctccgtac gtgcctgca ggcgaggt tgagatctat ctgctgaatc tggccatctc caaccttctg tttctggga cactgccct tccgtggcct cccgtggct ggcatgggt cttcgggagt tcttgtgca agatggtgag cactcttat actattaact ttacagtg catcttttc attagctgca tgagcctgga caagtacctg gagatcgttc atgctcagcc ctaccacagg ctgaggaccc ggcccaagag cctgctcctt gctaccatag tatgggctgt gtccctggc gtctccatcc ctgatgtgt ctttgtacag acacatgaaa atcccaagg tgtgtggaac tgccacgcag atttcggcg gcattggacc atttggaagc tcttctccg	Homo sapiens
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396	17345	G Protein- Coupled Receptor D6	NP_001287.2	<p>cttccagcag aacctccatg ggtttctctt tccactcctt gccatgatct tcttctactc ccgtatttgt tgtgtcttgg tgaggtgag gccgcagcc caggccggg ctttaaaat agtcagacc ttgtgtgtgg ccttctctgt gctatgtgtc ccataaatc tcaccttgtt tctgcatacg ctgttgacc tgcaagtatt cgggaactgt gagtcagcc agcatctaga ctacgactc caggtaacag agagcatcg cttctctcac tctgtctttt ccccatctc gtatgcttc tccagtacc gcttcgcca gtactgaa gcttctctgg ctgcccgtct tgatggcac ctggcaactg gcaatgccc ggcctcatta tccagctgtt ctgagagcag catacttact gcccagagg aatgactgg catgaatgac ctggagaga ggcagctga gaactaccct acaagagg atgtgggaa taaatcagcc tgagtacca aatttgggc tggtgggaa agatgggaa cagctcaat gggtgtccac tcaagtgtc c</p> <p>LSGNLILMV LRYVPRRM VEIYLLMLAI SNLLFLVILP FWGISVAWHV VFGSFLCKMV STLYTINFYS GIFFISCM SL DKYLEIVHAQ PYHRLRTRAK SLLLATIVMA VSLAVSIPDM VFVQTHENPK GWNCHADFG GHGTIWKLFL RFQNLGLFL LPLLAMIFFY SRIGCVLVRL RPAGQGRALK IAAALVVAFF VLWFPYNLTL FLHTLLDLQV FGNCESVQHL DYALQVTESI AFLHCCFSPI LYAFSSHRFR QYLKAFLLAAV LGWHLAPGTA QASLSSCSSES SILTAQEEMT GMNDLGERQS ENYPNKEDVG NKSA</p>	Homo sapiens
397	17535	Gaba (b) Receptor 1	NM_001470	<p>cgctccccgc tcccgtggtt gccgcgcctt cggggaagaa gagacagagg tggggttttg A gggaagcgag agaggaggg agagaccctg gccaggtctg agctggatt cgaggggagg agggacggga ggagagaaa ggtggagag agggagggg gagcgggga ggagcggccg ggcctggggc cttagggccc ggggagagcc gggcgcccg gcccgcgc cgagatgtt ctgctgtgt tactggccc actctctctt cgcgccccc ggcggggcg ggccagacc cccaacgcca cctcagaag ttgccagatc atacacccc cctgggaaag ggccatcagg taccggggcc tgactcggga ccagtgag gctatcaact tctgccagt ggactatgag attgagtatg tgtgccgggg ggagcgag gttgtgggg ccaaggtccg caagtgcctg gccaacggct cctggacaga tatggacaca ccagccgct gtgtccgaat ctgctccaa tcttatttga ccctggaaa gggaaaggtt tctctgacgg ttggggacct cccagctctg gacggagccc ggttggtatt ccggtgtgac cccgacttcc atctgtggg cagctcccgg agcatctgta gtcagggcca gtggagcacc cccaagcccc actgccagt gaatcgaacg ccacactcag aacggcgcc agtgtacatc ggggcactgt tccccatgag cgggggctgg ccaggggcc aggcctgcca gccgcgggt gagatggcg tgaggagct gaatagccc aggacatcc tgcggacta tgagctcaag ctcatccacc acgacagcaa gtgtgatcca ggccaaagcca ccaagtacct atagagctg ctctacaacg accctatcaa gatcatcctt atgcctggct gcagctctgt ctccacgtg ttgggtgagg ctgtaggat gtggaacctc attgtgcttt cctatggctc cagctacca ccctgtgcaa accggcagcg ttccccact ttcttccgaa cgcacccatc agccacatc cacaacctc cccgctgaa actctttgaa aagtggggct ggaagaagat tgctaccatc cagcagacca ctgaggtctt cacttcgact ctggagacc tggaggagc agtgaaggag gctggaaatg agattacttt ccgccagagt ttcttctcag atccagctgt gccgtcaaa aacctgaagc gccaggatgc ccgaatcatc gtgggacttt tctatgagac tgaagcccg aaagtttttt gtgaggtgta caaggagcgt ctctttggga agaagtacgt ctggttctctc attgggtggt atgtgacaa ttggttcaag</p>	Homo sapiens

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398 17535 Gaba (b) NP_001461.1 Homo sapiens
Receptor 1

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aaaa

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K

399 17666 Glucagon- NM_002062 Homo sapiens
Like Peptide
1 Receptor

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[illegible]

402	18471	G Protein- Coupled Receptor LOC51210	NP_057456.1	MDTLEEVTTWA NGSTALPPPL LLMKLPSSARA KIRITSSPIF TRFFLLAIEL SVIILGLAFG EDFNLYGHGG RQFWLVSSCF LQGLGSVLLC FDIIEGLCCV TEEPDVHLPPQ PYAVARREGL NSTDSERWKA INA	caaaaaaaa aaaaaaaagt ttgt ccac
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404	19072	G Protein- Coupled Receptor	ENSP0000016 4265	<p> ttggaaccg aggttcagag aggtgtaaa agctgcctag agtcaggcca gcctgggtggg actgaaccc acatccgca actgcaggc ccaggcccta gctgctacag tgcagaagag ttactcccc ttgccaagg cccattttt tgtttttgt ttactttatt tatttattta tttttgagac agagttttgc tcttgttgcc caggctggat gtgcaatggc acaatctcag ctactgcaa cctctgctc ctgggttcaa gctagttcc tgcctcagc tccaagtagc tgggattaca ggtgcccgt ccacgcctg gctaatttt tttttgtatt ttagtaccg acaggtttt accatgttag tcagctggt ctcgaactcc tgacctcagg tgatctgccc atctcagcct cccaaactgc taggattaca agcgtgaacc actgcatctg gcctcaaggg ccgtttgatg cagaggtagg atagcatacc catgggtttc ctgggtggc caggtccacg gatggacaga gggagctttg gtgctgtagg taggtagta ggggcgcagg atcaggagac agagcaaggc caggcgggc ctcaaatgtc tgttggggag ttgcaactga tactaacggc tggggaaggc caaggtgagg gctgctgtga gaaaggcctt gccgacaaa gtctgaggtc cagagggct gcctgggtc ctctgtgtga agctggacc agctggccc aagaatgaag tctggactca gtgccaacc cctgcccct gcaggactct acgcccacc ccgaaaggct tgcagtgaaga caggagagg actggggcaa agaccagcct gaggggtttc atccaagcag caggcaagac tgccttcct gagccattgc agcatgag gacatgagct ccagaatggt gactcggggg gtgacgctt cagagtcagg gccttgctca gtaggcagcc cccactgccc cccccagc agcctggtt cctcccagct aagggtcct atgtgtacag ttggggctgg cagcccgtc cctgtgcaga tggaggggcagg gggcttcag aaacagcaga gaccacaag gcacctcgg agcagagtgg gggcagtgt ggggtagagg ggggctggga gggagttaga accaccctg cgtctcttac ggacgggga caggtgtacag cttgtgggc cactccatgc tgctgttata aagctccgg agcttcacc cctagagca tggcctgttc ttgcccatt ttccagatga aaaaactgag cccaaaagg gtttagcagc tttctgagg tcactgtggc caaaaacggc agaatacaaca tcccacatc cccacactt tcactcttt ttggtcagtc cttaagcatc actctttggg acagagcaac gagggctatc ctgggagagg aggaatgcag ggacccaaaa gcaggggtag gctgaggag gccactggcc gggaaggggg tggtagaatc ttgaacaggc ttgagacctg gttctctaag cctcagttc ctcactctca aaaggggatg gcagccggc acagtgttc ataccgtaa tcccagcact ttgggaggcc gaggcaggag gatctcttaa gccaggaga tggaggctg agtgagccat gattgagcca ctgcaactcca gcctgggtga cagaatgaga ctgtctcaa acaagcggg gaggaggtgg taatccatgc cccacttctc tccatggca gccaggaga agcagagca aggccacca gtgctgcccc gtgcccaggt agtcccga agcggggc tcccactgc agctccagc tcttttctcc ccaaggccc ctctccttg gcagataccc acctgtcaga cctgccgtac acatggggag accgagactc aggggagct tgtgtatgg tgggggggtc tgcaggtgccc aggccagcc ctgtgcccac aggtggtgag cttcagcagc ctgctggccc agcctcagc gccctggatg gcactctcg tgctgtggtg ctccgtggc cagggcctgc tgctgcctgt gctcctctgg gcctgcgacc gctaccggg tgacctcaa gctgtccgg agaagtgcac ggcctcctg gccaacgag aggagtcaga cgatggt </p>	Homo sapiens
				<p> SDERRLPGSA VGNLWCGGLS LIANAWGILS VQAKQKKWKP LEFLICTLAA THMLNVAVPI P ATYSVQLRR QRPDEFWNEG LCKVFVSTFY TLTATCFVS TSLSYHRMMW VCPWPNYRLS NAKKQAVHTV MGIWMVSFIL SALPAVGWHD TSEIFYTHGC RFIVAEIGLG FGVCFLLLVG </p>	

405	19501	Ls19072	G Protein- Coupled Receptor KIAA0758	AB018301	GSVANGVICT AIALFQTLAV QVGRADRRRA FTVPTIVVED AQKRRSSID GSEPAKTSLQ TTGLVTTTIV IVDCIMGFPV LVVSFSLRA DASAPWMALC VLWCSVAQAL LLPVFLWACD RYRADLKAVR EKCMLMAND EESDDG	gtgcaagaag aaaaatagatg ttatgcccac ccaaatcttg gcaaatgaag aaatgaaggt A gatgtgcgac aacaatcctg tatctttgaa ctgtgtcagc cagggtaatg ttaattggag caaagttaga tggagcagg aagaaaaa aaatatcca ggaacccctg agacagacat agattctagc tgcagcagat acaccctcaa gctgtatgga acccagtgcc caagcgggtc gtctggaaca acagtcactc acactgtga gtctatcagt gcctatggag ccagagggcag tgcaaacata aagtgacat tcattctctg ggccaatcta acaataccc cggaccacat ttctgtttct gagggacaaa acttttctat aaaaatgcac agtgatgtga gtaactatga tgagggtttat tggaaacact ctgctggaat taaaatatat caaagatttt ataccacgag gaggtatctt gatggagcag aatcagtact gacagtcaag acctcgacca gggagtggaa tggaacctat cactgcata ttagatataa gaattcatat agtatgcaa ccaaagacgt cattgttcac cgtctgcctc taaagctgaa catctatggt gatcctttgg aagctactgt ttcatgcagt ggttcccatc acatcaagt ctgcataag gaggtatgag actacaaagt tactttccat atgggttctc catccttcc tgctgcaaaa gaagttaaca aaaaacaaat gtgtacaaa cacaatttca atgcaagctc agtttctctg tgttcaaaaa ctgttgtatgt gtgtgtcac tttaaccaat ctgctaataa ttcatgttgg agccatcta tgaagctgaa tctgttctc tgggaaaaa tcacatgcca ggaatccgta atagggtgtc gagagccggg gaaagtcac cagaagctat gccgttctc aaacgttccc agcagccctg agagtcccat tggcgggacc atcaactaca aatgtgtagg ctccagtggt gaggagaaga gaaatgactg catctctgcc ccaataaaca gtctgtcca gatggctcaa gctttgatca agagccctc tcaggatgag atgtccctc catacctgaa ggatctttct attagcatag acaagcggg acatgaaatc agctctctc ctgggagctc tggagccatt attaacatcc ttgatctgtc ctcaacagtt ccaacccaag taaattcaga aatgatgacg cactgtctct ctacgggttaa tgtcatcctt ggcaagcccg tcttgaacac ctggaaaggt ttacaacacg aatggacca tcagagttca cagctactac attcagtga aagatttcc caagcattac agtcaggaga tagcctctct ttgtccttct ccaaaactaa tgtgcagatg agcagcacgg taatcaagtc cagccaccat gaaacatctc acagaggtt tgttttccca tactttgacc tctggggcaa tgtgtgtcatt gacaagagct atctagaaa ctgtgcagtc gattcgtcta ttgtcaccat ggctttccca acttcccaag ccattcctgc tcaggatctc caggaaaaa actttgcaga gagcttagtg atgacaacca ctgtcagcca caatacagct atgccattca ggaatttcaat gacttttaag aacaatagcc cttcaggcgg cgaacgaag tgtgtcttct ggaacttcag gcttgccaac aacacagggg ggtgggacag cagtggtgtc tatgttgaag aaggtgatgg ggacaatgtc acctgtatct gtgaccacct acatcttc tccatctca tgtccctga ctccacagat cctagtctc tcctgggaat actcctggat attatttctt atgttggggt gggcttttcc atcttgagct tggcagcctg tctagtgtg gaagctgtgg tgtggaaatc ggtgaccaag aatcggactt ctatatgcg ccacacctgc atagtgaata tcgctgcctc cctcttggtc gccaacact ggttcattgt ggtcgtgccc atccaggaca atcgctacat actctgcaag acagcctgtg tggctgccc cttcttcac cacttctct acctcagcgt cttcttctgg atgctgacac tgggcctcat gctgttctat cgctgtgtt tcaattctga	Homo sapiens
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406	19501	G Protein- Coupled Receptor KIAA0758	BAA34478.1	<p>tgaacaagc aggtccactc agaaagccat tgccttctgt cttggctatg gctgcccact tgccatctcg gtcacacgc tgggagccac ccagccccgg gaagtctata cgaggaagaa tgtctgttgg ctcaactggg aggaacacaa ggcctgtctg gctttogcca tcccagcact gatcattgtg gtgtgaaca taaccatcac tattgtggtc atcacaaga tccctgagcc ttccattgga gacaagccat gaaagcagga gaagagcagc ctgtttcaga tcagcaagag cattgggtc ctacacccac tcttggcct cacttgggtt ttgtgtctca ccactgtgtt cccaggacc aacctgtgtg tccatatcat atttgcctc ctcaatgtct tccagggtat attcatttta ctcttggat gcctctggga tctgaaggta caggaagctt tgcgataaa gttttcattg tcgagatggt cttcacagca ctcaaatgtc acatccctgg gttcatccac acctgtgtt tctatgatt ctccaatc ctccaatgtt acaaatgtt tggtaaaac aggaacgtat aatgtttcca cccagaagc accagctca tccctggaaa actcatccag tgcttcttcg ttgtcaact aagaacagga taatccaacc tacgtgacct cccggggaca gtggctgtgc ttttaaaaag agatgcttgc aaagcaatgg ggaacgtgtt ctgggggcag gtttccggga gcagatgcca aaagacttt ttcatagaga agagcttct tttgtaaag acagaataaa aataattgtt atgttctgt ttgttccct cccctcccc ttgtgtgata ccacatgtgt atagtattta agtgaactc aagccctcaa gcccactt ctctgtctat attgtaatat agaatttga agagacattt tcacttttta cacattgggc acaagataa gctttgatta aagtagtaag taaaagcta cctaggaat acttcagtga attctaagaa ggaaggagg aaggaaggaa ggaagagg gaggaaaca gggagaaagg gaaaaagaa aaaaagaaa agatgaaaat aggaacaaat aaagacaaac aacattaaag gccatattgt aagatttcca tgttaattgat ctaataaat cactcagtcg aacattgaga atttttttt taatggctca aaaaaggaaa ctgaagagaa gtcattggga atgaatactt tgggcagtat cttctcatg tcttcttagc taagaggagg aaaaaaggc tgaataataa gggaggaat tccttcatca gaacgacttc aagtgagtaa caatatttat aagaatgaa tggagggaaa tatgatctc ctgagactaa ctttgtatgt taagggttga actaagtga tgcattctga gaggaagtat tataaagata tgtcattaga tccaagtgtc gattaaattt ttatagttaa tcagaaaagc cttatatatt agtttgttc acatttga agcaaaaaat atatatgga tataccctc aattgcaaaa ttgtatatgt tgcactgaag acagaccctg tcatatat aatggcttca agcaggtact tctctgtgca ttatagaata gattttaata atcttatagc attgtatatt attattgtg ttgtcactgt tattattatt gtggatactg gcccttgggtg tgttgcatag ctccctatgt attctctgtt tccatttcta agttcccaga ccaatataca ttaagagttt tgcatgtctt aaattgtgtt tattccaac acgtggaaa ctcctggaaa gaaattttac attcgggtgt tctgtgtctc taatgacact tgacctgtt gaacaaatgg cagagccttt ccaaggatt tgattgtttg tgaattatct gcatgtgtc tttttttg tgtgtattc attaaaaaat ataaatatt atg</p>	<p>Homo sapiens</p> <p>NIPGTPETDI P ANLTITPDPI TVKSTREWN CIEEDGDYKV SWSPSMKLN SQWEEKRND</p>
				<p>CKKKIDVMPI QILANEEMKV MCDNNPVSLN CCSQGNVWS KVENKQEGKI DSSCSRYTLK ADGTQCPGS SGTTVIYTC FISAAGARG ANIKVTFISV SVSEGNFSI KCISDVSNYD EYWNYSAGI KIYQRFYTR RYLDGAESVL GTYHCIFRYK NSYSIATKDV IVHPLPLKLN IMVDPLEATV SCSSGSHIKC TFHMGSSSLP AAKEVNKKQV CYKHNFNASS VSWCKTVDV CCHFTNAANN LVPGENITCQ DPVIGVGEPG KVIQKLCRFS NVPSSPESPI GGTITYKCVG</p>	

407	21632	G Protein- Coupled Receptor Ls21632	AB040964	ISAPINSLQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSSPGSL GAIINIILDL STVPTQWSE MMTHVLSTVN VILGKPVLT WKVLOQWNT QSSQLHSVE RFSQALQSGD SPPLSFSQTN VQMSSTVIKS SHPETYQORF VFYPFDLWGN VVIDKSYLEN LQSDSSIVTM AFPTLQAILA QDIQENFAE SLVMTTVSH NTTMPFRISM TFKNNSPSGG ETKCVFNFR LANNTGGWDS SGCYVEEGDG DNVTICDHL TSFSLIMSPD SPDPSSLLGI LLDIISYVGV GFSILSLAAC LVVEAVVWKS VTKNRTSYMR HTFCIVNIAAS LLVANTWFIV VAAIQDNRYI LCKTACVAAT FFIHFYLSV FFWMLTLGLM LFYRLVFILH ETSRSQKAI AFCLGYGCPRL AISVITLGAT QPREVYTRKN VCWLNWEDTK ALLAFAPAL IIVVNITIT IIVITKILRP SIGDKPKQE KSLFQISKS IGVLTPLLGL TWGFLTVF PGTNLVFHII FAILNVFQGL FILLFGCLWD LKQEQALLNK FLSLRWSSQH SKSTSLSGST PVFSMSSPIS RRENLFGKT GTYNVSTPEA TSSSLENSSS ASSLLN	Homo sapiens
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Homo
sapiens

P

BAA96055.1

408 21632 G Protein-
Coupled
Receptor
Ls21632

gcagtggtg ggggtccctgc aggtcatgag ggccatgag cttactcct ttaaacacc
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Homo
sapiens

A

NM_020400

409 22315 G Protein-
Coupled
Receptor
GPR92/GPR93

410	22315	G Protein-Coupled Receptor GPR92/GPR93	NP_065133.1	MLANSSSTNS SVLPCEPDYRP THRLHLVVYS LVLAAGLPLN ALALNVFLRA LRVHSVSVSVY P	Homo sapiens
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				AAIVHPLRLR HLRRPRVARL LCLGVWALIL VFAVPAARVH RPSRCRYRDL EVRLCFESFS	
				DELWKGRLLP LVLLAEALGF LLPLAAVVYS SGRVFWTLAR DATQSQRRL KTVRLLLLANL	
				VIFLLCFVPY NSTLAVYGLL RSKLVAAASVP ARDRVRGVLV VMVLLAGANC VLDPLVYFYS	
				AEGERNTLRG LGTPHRARTS ATNGTRAALA QSERSAVTID ATRPDAASQC LLRPDSHSL	
				SSFTQCPQDS AL	
411	22925	Latrophilin-3	NM_015236	gaaaaacacg agccgtgttg tatgtggagg ccccggtgtc tgggtgtaat tctcgttctt A	Homo sapiens
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 412 22925 Latrophilin- NP_056051.1 MWPSQLLIFM MLLAPIIHAF SRAPIPMAV RRELSCESYP IELRCPTDV IMIESANYGR P Homo sapiens
 3 TDDKICDSDP AQMENIRCYL PDAYKIMSQR CNNRTOCAV AGPDVFPDPC PGTYKYLEVQ

413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFCLPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRTD</p> <p>TLTEYSSKDD FIAGRPTTTY KLPHRVDGTG FVYDGALEF NKERTRNIVK FDLRTRIKSG</p> <p>EAIIANANYH DTSPIRWGKK SDIDLAVDEN GLWVIYATEQ NNGKIVISQL NPYTLRIEGT</p> <p>WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPPFENS</p> <p>YQYIAAADYN PRDNLIVWN NYHVVKYSLD FGPLDSRSG AHGQVSYIS PPIHLDSLE</p> <p>RPSVKDISST GPLGMGSTTT STTLRTTLLS PRNRSTSPV SPAVEVLDDM</p> <p>TTHLPSASSQ IPALEESCEA VEAREIMWFK TRQOQIAKQP CPAGTIGVST YLCLAPDGIW</p> <p>DPQGPDLNC SSPWNHITQ KLKSGETAAN IARELAQTR NHLNAGDITY SVRAMDQLVG</p> <p>LLDVQLRNLIT PGKDSAAKS LNKLOKRS CRAYQANVE TVNNLQQA LNAWRDLTTS</p> <p>DQLRAATMLL HTVESAFVL ADNLLKTDIV RENTDNKLE VARLSTENL EDLKEPENMG</p> <p>HGSTIQLSAN TLKQNGRGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSVIVNSP</p> <p>VITRAINKEF SNKVYLADPV VFTVKHIKQS EENFNPNCSF WSYSKRWTG YWSTQGCRL</p> <p>TTNKTHTTCS CNHLTNFAVL MAHVEVKHSD AVHDLLDVI TWGILLSLV CLLICIFTFC</p> <p>FFRGLQSDRN TIHKNLCISL FVAELLEFLG INRTDQFIAC AVFAALLHEF FLAAFTWMEL</p> <p>EGVQLYIMLV EVFESEHSRR KYFYLVGYGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF</p> <p>IWSFIGPATL IIMLVIFLG IALYKMFHT AILKPESGCL DNINYEDNRP FIKSWVIGAI</p> <p>ALLCLGLTW AFLMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT</p> <p>HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMWMD TVRKQSESSF ITGDINSSAS</p> <p>LNREPYRETS MGKLNIAAYQ IGASEQCQGY KCHGYSITTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtc a</p> <p>cacagaatgc gctttataac caatcatagc gaccacacgc c</p> <p>ccaaatgtta ctactgtcc catgagtaa aactgtctat c</p> <p>tactctgtta ttttcatcgt ggactgtgtt gggaacataa t</p> <p>ggtattcacc gtaaaagaaa ttccattcaa atttatctac</p> <p>ctcctactca tcttctgcct ccttttcoga ataattgtat</p> <p>acactagggtg tgattctgtg caagggtgtg ggaacactgt</p> <p>agcattattt tgcttggtt catcagtttg gatcgctata</p> <p>cagcaacgga aggcaataac aaccaaacaa agtatttatg</p> <p>cttgctcttg gtgattcct aactatgatt attttaaac</p> <p>tccacaatgt gtttcatta cagagataag cataacgcaa</p> <p>ttcattcttg tggtaattgt ctggctaatt ttctactaa</p> <p>attgggaaga atctattgag gatttctaaa aggaggtcaa</p> <p>tatgccacta cagctcgtaa ctccctttat gtaactatca</p> <p>ccctatcatg cctttcgatt catctacatt tcttcacagc</p> <p>tggaagaaaa ttgttcacaa aaccaatgag atcatgctg</p> <p>tgcttagatc cagtcattga tttcctgatg tccagtaaca</p> <p>cttcttttta gacgatttca agtgaacca agtaggagtg</p> <p>ccaggatact ccctgcatga tacatctgtg gcagtgaaa</p> <p>acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSSWPYSS HRMRFITNHS DQPPQNFSA</p> <p>YSVIFIVGLV GNIILYVEL GIHRKRNSIQ IYLLNVAIAD</p> <p>LLLLIFCLPER IMYHINQNKW</p> <p>KLLSTVLTTTS P</p>	Homo sapiens

Receptor GPR34	415	30698	G Protein- Coupled Receptor Ls30698	AX068267	<p> TLGVILCKW GTLFYNNMYI SIILLGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIVMM LALGGFLTMI ILTLKKGHN STMCIFYRDK HNAKGAEIN FILVMEFWLI FLIIILSYIK IGNLLRISK RRSKFNPSGK YATTARNSFI VLIIFICFV PYHAFRFIYI SSQINVSICY WKEIVHKTNE IMLVLSSEFNS CLDPVMYELM SSNIRKIMCQ LLFRRFQGEF SRSESTSEFK PGVSLHDTSV AVKIQSSSKS T </p> <p> gttctcagat cggcttctcg caacaggcag tcagttttca ctgggcccct tggactccca A ttccaataat ggagaagaca gatcacagcc actgacaggg gacctgtggga ggtgccacgt gatgtgaggg catcatgcta gggagctgag ctctgacctt cctgctgggt gattctccac ctctggggctg ctatagcttac ttctgtgatg ccgtgaagat cctcatgtat gaaaatgaag tcccaggcaa ccatgatttg ctgcttagtg ttctttctgt ccacagaatg tccccactat agatccaaga ttacactaaa aagctatagt gaagtggcca accacatcct cgacacagca gccatttcaa actgggcttt cattcccaac aaaaatgcca gctcggattt gttgcagtca gtgaatttgt ttgccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa ctcttcattc agacaaaagg gtttcacatc accataata cctcagagaa agcctcaat ttctccatga gcatgaacaa taccacagaa gatattctag gaatggtaca gattccccagg caagagctaa ggaagctgtg gccaaatgca tcccaagcca ttgcatagc ttccccaaac ttgggggcta tcttgagaga agcccacttg caaaatgtga gtcttcccag acaggtaaaat ggtctggtgc tatcagtgtt ttaccagaa aggttgcaag aaatcatact cactctcgaa aagatcaata aaaccgcaa tgccagagcc cagtgtgttg gctggcactc caagaaaagg agatgggatg agaaagcgtg ccaaatgatg ttggatata ggaacgaagt gaaatgccgc tgtaactaca ccagtgtgtt gatgtctttt tccatttca ttgtctccaa atcgatgacc gacaaagttc tggactacat cactgcattt ggcctcagcg tctcaatcct aagcttgggt ctttgcctga tcattgaagc cacagtgttg tcccgggtgg ttgtgacgga gatatacat atgcgtcacg tgtgcacgt gaatatagca gtgtcccttc tgactgcca tgtgtggtt atcataggct ctacatttaa cattaaaggcc caggactaca acatgtgtgt tgcagtgaca tttttcagcc actttttcta cctctctctg tttttctgga tgctcttcaa agcattgctc atcatttatg gaatatgtgt cattttcgtt aggatgatga agtcccgaat gatggtcatt ggcttgcca ttggctatgg gtgcccattg atcattgtcg tcaactacgt tgctataca gagccagaga acggtacat gagacctgag gcctgttggc ttaactggga caataccaaa gcccttttag catttgccat cccggcgttc gtcatgttgg tctataatct gattgtggtt ttggtgttg ctgtcaacac tcagaggcc tctattggca gttccaagtc tcaggatgtg gtcataatta tgaggatcag caaaaatgtt gccatccta ctccactgtt gggactgacc tggggttttg gaatagccac tctcatagaa ggcacttctt tgacgttcca tataattttt gccttgctca atgctttcca ggttttttct atctgctgt ttggaacctat tatggatcac aagataagag atgttttgag gatgaggatg tcttcaattg aggggaaatc gagggcagct gagaatgcat cactaggcc accaatgga tctaaattaa tgaatcgtca agatgaaat gctgccccat ttctcatgga tgtcctgaga ccaagagggg agatccagga gaaagagcc atggaaagca ggctggagt aggaggaatg gtcatgtctt ctgtgaagac ttctcttct tgtcaggagt gactcccaag ctcttggctg gccgaagaaa aactgaggat aacatttgc gactgggctt taaggagcat gatttatgga ccccttaacc taccctgtcc ctgcaagagg ctggcttctt ggtcaatctt gactagatta agagtcaatc tgcaagccat ttatggctt </p>	Homo sapiens
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Homo
sapiens

P

CAC27252.1

G Protein-
Coupled
Receptor
Ls30698

30698

416

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 LIVLVVAVN TQRPISGSSK SQDVVIMRI SKNVAILTPL LGLTWGFGIA TLIETGSLTF
 HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR
 QG

Homo
sapiens

A

NM_023915

G Protein-
Coupled
Receptor
GPR87/GPR95

30875

417

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 atcagatcac tgcaaaagtgt gagaagatcg gaagtgcga tatattatga ttacactgat

418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPPFRIVH DAGFGPWYFK FILCRYTSVL FYANNMYSIV FLGLISIDRY LKVVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIIT NGQPTEDNIH DCSKLKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSRQF ISQSSRRKRH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKSN IRTSRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccacc cagcgcagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcattgtcat caccattttt gtctgctgg gaaacctggt catcgtggtc acctgtgaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccact tctgtgctc cgtgttggtg ctgccttttg tggtagcagg ctccatccgc agggaatgga tctttgtgt agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgcccacg accgctacta tgctgtcctg taccctatgg tgaccccat gaagatcaca gggaaccggg ctgtgatggc acttgctac atctggctc actcgtcat cggctgcctg ccaccctgt ttggttggtc atccgtggag tttagacagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgc cctcttccc ttctgtgca tgcgtgtgtg ctatggcttc atcttcgctg tggccagggt caaggcaccg aagtgacact gtggacagt cgtcatcgtg gaggaggatg ctccagaggac cgggaggag aactccagca cctccacctc ctcttcaggc agcaggaggga atgccttca ggtgtggtc tactcggcca accagtcaa agccctcac accatcctgg tggctcctgg tgccttcag gtcacctggg gccctacat ggtgtgcat gccctggag ccctctggg gaaaagctcc gtctcccca gctggagac ttgggcca tggtgtctt tgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt ggggaaccgt attatcgga accattgtg caacgacaga ggaactccag gctcttcagc atttcaaca gatacaga cctgggctg tccccacc tcaactgcgt catggcagg ggacagccc tggggcacag cagcagcacg gggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctc cacctgcgc gtttccctg tgttgcgtt ccccgtgtc gcgttcccc tgtcagggt caagagctgg cggaggggca tttccacgg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	MSLNSLSLSCR KELSNLTEEE GEGGVITQ FIAIIVITF VCLGNLVIV TLYKKSLLT P LSNKFVFSLT LSNFLSVLV LPFVVTSSIR REWIFGVWC NFSALLYLLI SSASMLTLGV IAIDRYAYVL YPMVPMKIT GNRVAMALV IWLHSLIGCL PPLFGWSSVE FDEFKWMCA AWHREPGYTA FWQIWALFP FLVMLVCYGF IFRVARVKAR KVHCGTVWV EEDAQRTGRK NSSTSTSSG SRNFAQGVV YSANQCKALI TILVLGAEM VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLWNKT VRKELLMCF GDRYREPFV QRQRTSRLES ISNRITDGL SPHLTALMAG GQPLGHSST GDTGFCSCQD SGNLRAL atggacacct cccggctcgg tgtgctcctg tcttgcctg tgctgtgca gctggcgacc A gggggcagct ctcccaggtc tgggtgtgtg ctgagggggt gccccacaca ctgtcattgc	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPPFRIVH DAGFGPWYFK FILCRYTSVL FYANNMYSIV FLGLISIDRY LKVVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIIT NGQPTEDNIH DCSKLKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSRQF ISQSSRRKRH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKSN IRTSRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccacc cagcgcagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcattgtcat caccattttt gtctgctgg gaaacctggt catcgtggtc acctgtgaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccact tctgtgctc cgtgttggtg ctgccttttg tggtagcagg ctccatccgc agggaatgga tctttgtgt agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgcccacg accgctacta tgctgtcctg taccctatgg tgaccccat gaagatcaca gggaaccggg ctgtgatggc acttgctac atctggctc actcgtcat cggctgcctg ccaccctgt ttggttggtc atccgtggag tttagacagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgc cctcttccc ttctgtgca tgcgtgtgtg ctatggcttc atcttcgctg tggccagggt caaggcaccg aagtgacact gtggacagt cgtcatcgtg gaggaggatg ctccagaggac cgggaggag aactccagca cctccacctc ctcttcaggc agcaggaggga atgccttca ggtgtggtc tactcggcca accagtcaa agccctcac accatcctgg tggctcctgg tgccttcag gtcacctggg gccctacat ggtgtgcat gccctggag ccctctggg gaaaagctcc gtctcccca gctggagac ttgggcca tggtgtctt tgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt ggggaaccgt attatcgga accattgtg caacgacaga ggaactccag gctcttcagc atttcaaca gatacaga cctgggctg tccccacc tcaactgcgt catggcagg ggacagccc tggggcacag cagcagcacg gggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctc cacctgcgc gtttccctg tgttgcgtt ccccgtgtc gcgttcccc tgtcagggt caagagctgg cggaggggca tttccacgg tg	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPPFRIVH DAGFGPWYFK FILCRYTSVL FYANNMYSIV FLGLISIDRY LKVVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIIT NGQPTEDNIH DCSKLKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSRQF ISQSSRRKRH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKSN IRTSRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccacc cagcgcagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcattgtcat caccattttt gtctgctgg gaaacctggt catcgtggtc acctgtgaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccact tctgtgctc cgtgttggtg ctgccttttg tggtagcagg ctccatccgc agggaatgga tctttgtgt agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgcccacg accgctacta tgctgtcctg taccctatgg tgaccccat gaagatcaca gggaaccggg ctgtgatggc acttgctac atctggctc actcgtcat cggctgcctg ccaccctgt ttggttggtc atccgtggag tttagacagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgc cctcttccc ttctgtgca tgcgtgtgtg ctatggcttc atcttcgctg tggccagggt caaggcaccg aagtgacact gtggacagt cgtcatcgtg gaggaggatg ctccagaggac cgggaggag aactccagca cctccacctc ctcttcaggc agcaggaggga atgccttca ggtgtggtc tactcggcca accagtcaa agccctcac accatcctgg tggctcctgg tgccttcag gtcacctggg gccctacat ggtgtgcat gccctggag ccctctggg gaaaagctcc gtctcccca gctggagac ttgggcca tggtgtctt tgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt ggggaaccgt attatcgga accattgtg caacgacaga ggaactccag gctcttcagc atttcaaca gatacaga cctgggctg tccccacc tcaactgcgt catggcagg ggacagccc tggggcacag cagcagcacg gggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctc cacctgcgc gtttccctg tgttgcgtt ccccgtgtc gcgttcccc tgtcagggt caagagctgg cggaggggca tttccacgg tg	Homo sapiens

Receptor
GPR49

gagcccgacg gcaggatgtt gctcagggtg gactgctccg acctgggggt acctggagctg ctcggagctg
ccttcaacc tcaggtctt cactctctac ctgacctca ctatgaacaa catcagtcag
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gactgctcta tggtaaaaca cattgcccctg ttgctcttca ccaactgcat cctaaactgc
cctgtgggctt tctgtcctt ctcctcttta ataaacctta cattatcag tccgaaagta
attaaagtta tcttctgtgt ggtagtcaca cttcctgcat gtctcaatcc ccttctctac
atcttgttca atcctcactt taaggaggat ctggtgagcc tgagaaagca aacctacgtc
tggacaagat caaacaccc aagcttgatg tcaattaact ctgatgatg cgaaaaacag

Homo sapiens

NP_003658.1

G Protein-Coupled Receptor GPR49

36534

tcctgtgact caactcaagc ctgtgtaacc ttaccagct ccagcatcac ttatgacctg
cctccagtt cegtccatc accagcttat ccagtgactg agagctgcca tcttctctct
gtggcatttg tccatgtctc ctaa
PSNLRLGVLL SLPVLIQLAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGLSEL P
LQNNQLRHVP TEALQNLRSL QSLRLDANHI SYVPSCFSG LHSRLHMLD DGLALTEIPVQ
AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVHLHNN RHSLGKKCF DGLHSLFTLD
LNYNNLDEFP TAIRTLNLK ELGFHNNIR SIPEKAFVGN PSLITHFYD NPIQFVGRSA
FQHLPELRTL TLNGASQITE FPDLTGTANL ESLLTGAQI SSLPQTVCNQ LPNLQVLDLS
YNLLEDLPF SVCQKLQKID LRHNEIYEIK VDTFQQLLSL RSLNLAWNKI AIIHPNAFST
LPSLIKLDLS SNLLSSFPIT GLHGLTHLKL TGNHALQSLI SSENPELKV IEMPYAYQCC
AFGCENAYK ISNOWNKGDN SSMDDLHKDD AGMFOQDER DLEDFLLDFE EDLKALHSVQ
CSPSPGFKP CEHLDGWLI RIGVWTIAVL ALTCNALVTS TVERSPLYIS PIKLLIGVIA
AVNMLTGVSS AVLAGVDAFT FGSFARHGW WENGVGCHVI GFLSIFASES SVFLLTLAAL
ERGFVKYSA KFETKAPFSS LKVIILICAL LALTMAAVPL LGGSKYGASP LCLPLPFGER
STMGYMVALI LLNSLCFLMM TIATKLYCN LDKGDLENIW DCSMVKHIAL LLFTNCILNC
PVAFISFSSL INLTIFISPEV IKFILLVVVP LPACLNFLLY ILFNPHFKEP LVSLRKQTYV
WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PPSSVPSPAY PVTESCHLSS
VAEVPCL

Homo sapiens

NM_004736

Xenotropic and Polytropic Retrovirus Receptor (XPRI)

37498

actagagatg gcgggcgggc tgctctgaag agacctggcg ggcggcgag gaggagagaa A
gcgcagcgcc gcgcgcgcgc gggccctatg tggggagagag tcggagtcgc tgttgcgcgc
gcgcctctga gctgctggac ccagatggga gtgaggggga aacggcagga tgaagttcgc
cgagcacctc tccgcgcaca tcactccga gtgaggaag caatacatc agtatgagc
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tgctacactt cagaatgagc ttcagtcact actggatgca cagaaagaaa gcactgggtg
tactacgtg cgacaacgca gaaagccagt cttccacttg tcccatgagg aacgtgtcca
acatagaaat attaaagacc ttaaactggc cttcagtgag ttctacctca gtctaactct
gctgcagaac tatcagatc tgaattttac agggtttcca aaatcctga aaagcatga
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tgaacttgaa gatggtgaca gacaaaaggc tatgaagcgt ttacgtgtcc cccctttggg
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cattgtactg aatattacc ttgtgcttgc cgctgattt aaacttgaaa cagatagaag
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gatatttggt tgcctgagcc ttctggcatg cttctttgct ccaattagtg tcatccccc
atatgtgtat ccacttgccc tttatggatt tatggtttcc ttccttatca accccaccaa
aacctttctac tataaatccc gggtttggct gctaaactg ctgtttcag tatttacag

424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p>ccccctccat aaggtaggct ttgctgattt ctggctggcg gatcagctga acagcctgtc agtatactg atggacctgg aatatatgat ctgctctac agtttgagc tcaaatggga tgaagtaag ggcctgttgc caataatcc agaagaatca ggaatttgcc acaatatatac atatggtgtg cgggccattg ttcatgtcat tctctgttgg ctctgcttca tccagtgcct ggccgatat cgagacacaa aaaggccctt tctctatcta gttaatgtg gaaagtactc cacacttct tcatgtgttg cgttgagc ctttctcagc accataaag aacgaggtca ctcgacact atggtgttct tttactgtg agttgtctt tatacatca gtctctgtca taccctcatc tgggatctca agatgactg ggtctcttc gataagaatg ctggagagaa caccttctc cgggaagaga ttgtataccc ccaaaagcc tactactact gtgccataat agagatgtg attctgcgt ttgctggac tatccaaatc tcatctact ctacaaattt gtgcctcat tctgggaca tcatgtctac tgtcttggc ccacttgagg tttccggcg attgtgtgg aacttcttc gcctggagaa tgaacatctg aataactgtg gtgaattccg tgctgtcgg gacatctctg tggcccccct gaacgagat gatcagactc tctagaaca gatgatggac caggtatgat gggtaacgaaa ccgccagaag atcgggtcat ggaagtacaa ccagagcata tccctgcgc gccctgcct cgcttctcaa tccaaaggctc gtgacactaa ggtattgata gaagacacag atgatgaag taacacttga attttctgaa gtctagctta acatcttgg tttctact ctacaatct tctctgacc aacgcaacct ctagtacct tccagccgaa aacaggagaa aacacataac acattttccg agctcttccg gatcggatcc tatggactcc aaacaagctc actgtgttc tttcttctc tgccaatcag aggatgtttt aagaacaaa tctatttca aaacaagtat ttacttcatt cagggacata gatacctatc aggatgaaga acatagatc ttatggattg ttacacatac gaagacata gatacctatc aggatgaaga acaggcatg caaggacct ctgattggac cgtactgaga tatctcggct tccgctcagc ccggttttga atggtgaaa ccggacattg gtttttaaat ttttctcag tttatgtgga gaatttttt ctctctca taccagcgc aaaggcactg gccgacttg caggaaaagt gcaactaaa gcagtacctt cattcatgaa gctactttt aatttgatg aacttttctt attttgggaa ggtgtgtggtg gtgggtggga aatatgatg attgtttaca catagttttc tcattattta tgaacactaa ccatacagaa tgatataact cctgtgcaat gaagtgata acagtataag aagcgaggag aaaaaaaa</p>	<p>SAQDQAPSVE VTDETVKRY FAKFEKFFQ P LQSSLDAQE STGVTLLRQ RKPVFHLSHE LNFTGFRKIL KKHDKILETS RGADWRVAHV RQAMKRLRV PPLGAAQAP AWTFTRVGLF IYRGFFLIE FLFLGINTY GWRQAGVNHV LLACFFAPIS VIPTYVPLA LYGFVFFELI FADFVLADQL NSLSVILMDL EYNICFYSLE QYCI PAWLRF IQCLRRYRDT KRAPPHLVNA FYLIWIVFYII SSCYTLIWDL KMDWGLFDKN FAWTIQISIT STLLPHSGD IATVEAPLE VAPLNADDQT LLEQMDQDD GVRNRQKNRS DDEANT</p>	Homo sapiens
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425	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	AX073578	agagatggca gtgagcgaga ggagggggct cgcccgcgag agcccccgag agtgggggca A gcgctactt ctggtctgc tgttgggtg ctgctccgg cgcattccac ggctggcgt gacgggggag aagcagcgg acatccagct gaacagcttc ggtttctaca ccaatggctc tctggaggtg gatttgagcg tctgctggct ggccctccgg gaggcagaag agaagtcctt gctgggtggg ttacgtctca gccgggttcg gttcggcaga gttcgtctct attcaacccg ggatttcag gactgcctc tccagaaaaa cagtgcagt tctcgtgctc tgttctctat caacaccaag gactcgagg tccaggtgcg gaagtatgga gacgagaaga cgttggttat ctttcccggt ctctcccggt aagcacctc caaacccagg ctcccgaagc cacaggccac agtccccgc aaggtggatg gcggaggag ctctgcagc agcaagccca agtcaacacc cgcagtatt cagggtccta gtgggaagga caaggacctg gtttgggccc tgagccacct caacaactcc tacaacttca gtttccactt ggtgatcgcc tctcaggcgg aagaaggcca gtacagcctg aacttccaca actgcaacaa ttcatgtcca ggaaggagc atccattcga catcaggtg atgatccgg agaagaacc cgtggcttc ctgtcggcag cggagatgcc cttttcaag ctctacatgg tcatgtccgc ctgcttctc gccgtggca tcttctgggt gtccatctc tcagggaaca cgtacagcgt cttcaagatc cactggctca tggcgccctt ggccttcaac aagagcatct ctctctctt ccacagcatc aactactact tcatcaacag ccaggggcac cccatcgaa gcttggcgt catgtactac atgcacacc tggctgaagg cgccctctc ttcatcacca tgccttgat tggctcagg tggcccttca tcaagtactg cctgtcggat aaggagaaga aggtcttgg gatcgtgat cccatgcagg tcttggccaa cgtggcctac atcatatcg agtcccgca ggaaggcgc agcactacg tctgtggaa ggagatttg tctcgtggg acctatctg ctgtgtgccc atcctgttcc ccgtagtctg gtccatccgg catctccagg atcgtctgg cacagacgag aagtgggcag tgaacctggc caagctgaag ctgttccgg attactatg catgtctatc tgctacgtct acttccaccg catcatgcc atcctgtgc agtggtgtg gcccttccag tggcagtggt tgtaccagct cttgggtgag ggtccacc cgtgcttctt cgtgctcag ggtacaaat tccagccac agggaacac ccgtacctgc agtgcacca gaggacgag gagtatgtc agatggagca agtaatgacg gactctgggt tccgggaagg cctctccaa gtcaacaaa cagccagcgg gcgggaactg ttatgatcac ctccacatct cagaccaaa ggtcgtctc cccagcatt tctcactct gcccttctc cacagcgtat gtggggaggt ggaggggtc catgtggacc aggcgccag ctccccgga ccccggttc cggacaagc cattgggaag aagagtcctt tctcccccc aatatggg cagccctgtc ctaccgccg gaccaccct ccttccagc tatgtgtaca ataattgacca atctgttgg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	CAC28410.1	MAVSERRGLG RGSPAEWQR LLLVLLGGC SGRIHRLALT GEKRAIQLN SFGFYTNGLS P EVELSVRLG IREAEKSLV VGFSLSRVS GRVRSYSTRD FQDCPLQKNS SSFLVFLIN TKDLQVQRK YGEQKTLFIF PGLLPEAPSK PGLPKQATV PRKVDGGTS AASKPKSTPA VIQGPSGDK DLVLGLSHLN NSYNFSFHV IGSAAEEQY ILFNHNCNS VPKKEHPFI TVMIREKNPD GFLSAAEMPL FKLYMMSAC FLAAGIFWV ILCRNTYSVF KIHWMALA FTKSISLLEH SINYFFINSQ GHPIEGLAVM YYIAHLLKGA LLFITIALIG SGWAFIKYVL SDKEKKVFCI VIPMQVLNV AYIIIESREE GASDYLWKE ILFLVDLIC GAILFPVWS IRHLQDASGT DGKAVANLAK LKLFRRHYVM VICVYFTRI IAILQVAVP FQWQLYQLL VEGSTLAFFV LTGYKFQPTG NNPLYQLPQE DEEDVQMEQV MTDSGFREGL SKVNKTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
				agccagcccg aggcgcgag cggcagggtg gcacagaggt tctccacttt gttttctgaa A	
				ctcgcggtca ggcgtgtttt cctgtccagg cagtgtgccc atgttgccag aactgaagaa	
				gttttactga cgttcaagat attccttgct atcatttgct ttcattgtctg tctggtaaca	
				tccctggaag aagatactga taattccagt ttgtcaccac cactgtgtaa attatctgtt	
				gtcagtgttg cccctcctc caatgaggtt gaacaacaa cctcaatga tgttacttta	
				agcttactcc cttcaaacga aacagaaaaa actaaaaatca ctatagtaaa aaccttcaat	
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				caagctcctg agaacagtat tggcacaatt actctcctt catcgtctgat gaataattta	
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 aaaaataaaa atgttaaaat caatgaaata aattgacgt taaga
 NP_005747.1 MVFSVRQCGH VGRTEEVLT FKIFLVIICL HWLVTSLEE DTDNSSLSP PAKLSVVSFA P
 PSSNEVETTS LNDVTLSP SNETEKTKIT IVKTFNASGV KPQRNICNLS SICNDSAFFR P
 42697 G ProteIn- Coupled Homo sapiens

GEIMFQYDKE	STVPQNHIT	NGTLTGVLSL	SELKRSELNK	TLOTLSETYF	IMCATAEAQS
TLNCTFTIKL	NNTWNACAAI	AALERVKIRP	MEHCCECVRI	PCPSSPEELG	KLQCDLQDPI
VVCLADHPGRP	PFSOSSQIPV	VPRATVLSQV	PKATSEABPP	DYSPVTHNVP	SPINQIQPLS
QQPSAPIASS	PAIDMPQOSE	TISSPMQTH	VSGTPPPVKA	SESPVTSAP	AVNNTTSAPP
VQDQDIVNTSS	ISDLNEQVLS	MEKALSLSGL	ESPNLAGEMIN	QVSRLHSPPP	DMLAPLAQRL
LKLVDDIGLQ	LNFSNNTVLS	TSPSLALAVI	RVNASSFNFT	TFVAQDPAFL	QVSLETOAPE
INSIGITILPS	SLMNNLPAHD	MELASRVQFN	FFETPALFQD	PSLENLSLIS	YVSISSVANL
TVRNLTNRVT	VTLKHNPSQ	DELTVRCVFV	DLGRNGRGGR	WSDNGCSVKD	RRLNETICTC
SHLTSFGVLL	DLRSRTSVLPA	QMMALTFITY	IGCGLSSIFL	SVTLVTYIAF	EKIRRDYPK
ILILQICLAALL	LLNLVELFLDS	WIALYKVMQGL	CISVAVELHY	FLLSVFTWMG	LEAFHMYLAL
VKVFENYIRK	YILKFCIVGW	GVPAVVVTII	LITISPDNYGL	GRYKFKFPNGS	PDDFCWINNN
AVFYITVVGY	FCVIFILNVS	MEIIVLTLQF	RIKKKKQLGA	QSKTSIQDLR	SIAGLITFLLG
ITWGFAFFAW	GPVNVTFMYL	FAIENTLQGF	FIFIFYCVAK	ENVRKQWRRY	LCCGKLRLAE
NSDWSKTPATN	GLKKQTQVNG	VSSSSNSLSQS	SSNSTNSTTL	LVNNDCSVHA	SGNGNASTER
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tctaccagct	cctggatgaa	acggccacac	tggtcttctt	tggtctaacg	gggtataaat
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[illegible]

432	50847	Neurotensin Receptor type 2	NP_036476.1	PSSNPGSLSD RAGRAGRLRH ATVLSVAGLS ETADGEPEPA PSTSTPGSST AIVVMYVICW VSSSFRKLFL	ARLGVDTRLW LLLLVGPVE LRARSLTTPR TALQVFIQVN GLLSFIVWKK CYVPDDAWTD HPMKRLPPKP	AKVLTALYA LYSFWFHYV RTRWLVALSW VLVSEFLPLA TFIQGGQVSL PLYNTHYFY QSPITLMDTAS	LIWALGAAGN WVFGDLGCRG AASLGLALPM LTAFLNGTVV VRHKDVRIR MTNTLFYVS GFGDPPETRT	ALSVHVVLLKA YYFVHELCAV AVIMGQKHKL SHLLALCSQV SLQRSVQVLR SAVTPLLYNA	Homo sapiens
433	53440	G Protein- Coupled Receptor LS53440	AX107037	cagagaggct gggggtcacac agcttcttca ataggcctcc tacctttattg ctgcatgagc acctcatcca gatgcttgtc ctgctggcca gtacttacgt ctgatggcac tcccattctct aatgtcgtct tccttctcat aaggcatttg attggatttg ttggccaata	gtatttcagt atctcttcca tgatggtgga ctgggtttaga ctgtgctagg ccatgtatat tgcccaaat tgctacagat tggcttttga tgccctcgtgt cccttctcgt actgcctaca atggccttat atctgcttat gcactcaag ccaagatgtc cgtcatcatc tcttaagact gtctcatgtg tcctcatgtg tcgcttttagc ggttcctcct	gcagcctgcc tacggttgag tcccaatggc agaggtcag taacttgaca atctcttgc gtgcttcag tcttggttca cactccttat tcttgccatc ccgctatgtg caccaaaatt cttcatcaag ccaagatgtc cgtcatcatc gtgttggtgt tgcttggtgt aagcggcgtg gtgctcaacc	tgagggaaga ctgacacagc cttttccatg tggtcgaacc caattgtcta tgacacgtga tgacacgtga tcataatcta actctccgct gccccatc tggttggtgt tgacacgtga tgacacgtga cctgtgatga gccccggtc accttctcatc agccccagcc tgatactctta actctccgct gccccatc caattgtcta tggttggtga 		

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	gttaacattt tggaagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gacccctcaa atatgaact ggttgggaaa tctccatttt ttcaatatta tttcttctt tggtttcttg ctacataata ttattaatac cctgactagg ttgtggttgg aggtttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggttacatc tagagaacat ttgccaaagg cctaagcacg gcaaaaggaaa ataaacacag aatataataa aatgagataa tctagcttaa aactataact tctctctcag aactcccaac cacattggat ctacagaaaa tctgtcttcc aaatgactt ctacagagaa gaaataattt ttcctctgga cactagcact taagggggag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaaggt tgacacactg ttctgagagt ttccacagca tatggacctt gtttttctta ttttaatttc ttatcaacct ttttaattagg caagatat attagtaccc tcattgtagc catgggaaaa ttgatgttca gtggggatca gtgaattaaa tggggtcata caagtataaa aattaaaaaa aaaaagact tcatgcccaa tctcatatga tgtggaagaa ctggttaga gaccaacagg gtatggggtt agagatttcc agagtcttac atttctaga ggaggtattt aatttcttct cactcatcca gtgttgtatt taggaatttc ctggcaacag aactcatggc ttttaatccca ctgactattg cttattgtcc tggccaatt gccaattacc tgtgtcttgg aagaagtgat ttctagggtc accattatgg aagattctta ttcagaaggt ctgcataagg cttatagcaa gttatttatt tttaaaagt ccatagggtga ttctgatagg cagtgaagtt agggagccac cagttatgat gggaaagtat gaatggcagg tcttgaagat aacattggcc ttttgagtgt gactcgtagc tggaaagtga gggaaatcttc aggaccatgc tttatttggg gctttgtgca gtatggaaca gggactttga gaccaggaaa gcaatctgac ttaggcatgg gaatcaggca tttttgcttc tgaggggcta ttaccaaggg ttaatagggt tcactcttcaa caggatagca caacagtgtt aaccaagaaa ctcaaatatc aaataactaaa acatgtgatc atatatgtgg taagtttcat tttcttttc aatcctcagg ttccctgata tggattccta taacatgctt tcatccctt ttgtaatgga tatcatattt ggaaatgcct atttaatact tgtatttgcg gctggactgt aagcccatga gggcactgtt tattattgaa tgtcatctct gttcatcatt gactgctctt tgctcatcat tgaatcccc agcaaatgac ctagaacata atagtgccta tgcttgacac cggttatttt tcatcaaac tgattccctc tgtcctgaac acatagccag gcaattttcc agccttcttt gagtgggta ttattaaatt ctggccatta cttccaatgt gagtgaagt gacatgtgca atttctatac ctggctcata aaacctccc atgtgcagcc tttcatgttg acattaaatg tgacttggga agctatgtgt tacacagagt aaatcaccag aagcctggat ttctgaaaaa actgtgcaga gcaaacctc tgtcatttgc aactccact tgtatttcta cgaggcagtt ggataagtga aaaaataagt actatttgtt caagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa aaaaaaaaa aaaaaa	Homosapiens
				atcaactca tttcttctt aggtttatta tacagcattc gcaaaaggaaa tctctctcag ctacagagaa aagccttgaa ttccacagca caaagatat gtgaattaaa tctcatatga agagtcttac taggaatttc tggccaatt aagattctta ccatagggtga ggaaatcttc gaccaggaaa ttaccaaggg ctcaaatatc aatcctcagg tatcatattt gagtgggta atttctatac tgacttggga actgtgcaga ggataagtga aaaaaaaaa p	IVRTEHSLHE P
				atcaactca tttcttctt aggtttatta tacagcattc gcaaaaggaaa tctctctcag ctacagagaa aagccttgaa ttccacagca caaagatat gtgaattaaa tctcatatga agagtcttac taggaatttc tggccaatt aagattctta ccatagggtga ggaaatcttc gaccaggaaa ttaccaaggg ctcaaatatc aatcctcagg tatcatattt gagtgggta atttctatac tgacttggga actgtgcaga ggataagtga aaaaaaaaa p	SGMESTVLLA FCRSNILSHS ITREAQAKAF PIVYGVKTK
				atcaactca tttcttctt aggtttatta tacagcattc gcaaaaggaaa tctctctcag ctacagagaa aagccttgaa ttccacagca caaagatat gtgaattaaa tctcatatga agagtcttac taggaatttc tggccaatt aagattctta ccatagggtga ggaaatcttc gaccaggaaa ttaccaaggg ctcaaatatc aatcctcagg tatcatattt gagtgggta atttctatac tgacttggga actgtgcaga ggataagtga aaaaaaaaa p	AVLGNLTIIY LIQMFHLSL PLPVFIKQLP YLLILKTVLG IYLLVPPVLN DSPLPVILAN SMVHRESKRR ACDDIRNVV FIFVPPFGL VATHASEP
				atcaactca tttcttctt aggtttatta tacagcattc gcaaaaggaaa tctctctcag ctacagagaa aagccttgaa ttccacagca caaagatat gtgaattaaa tctcatatga agagtcttac taggaatttc tggccaatt aagattctta ccatagggtga ggaaatcttc gaccaggaaa ttaccaaggg ctcaaatatc aatcctcagg tatcatattt gagtgggta atttctatac tgacttggga actgtgcaga ggataagtga aaaaaaaaa p	PMYIFLCMLS MAFDYVVAIC YCLHQDVNKL GTCVSHVCAV IRQILRLFLH VATHASEP

435	54053	Gaba (b) Receptor 2	NM_005458	Homo sapiens
			atggcttccc cgcgaggctc cgggcagcca gggcgccgcg cgccgcgcg accgcgcgc accgcgcgc	
			gcgcctgc tactctact gctgctgcg ctgctgctgc cctggcgcc cctggcgcc cctggcgcc	
			ggctggcgcc gggcgccccc cgccgcgcg cccagcagcc gcgcgcctc catcatggc	
			ctcatgcgc tcaccaagga ggtggccaa ggcagcatcg ggcgcggtgt gctccccgc	
			gtggaactgg ccacgcagca gatccgcac gactcactcc tgcgccccct ctctctgcac	
			ctgcggtctc atgacacgga gtgcgacaac gcaaaagggt tgaagccct ctacgatgca	
			ataaaatag ggccgaacca ctgtagtggt ttggaggcg tttgtccat cgtcacatcc	
			atcattgcag agtccctcca aggttggaat ctggtgcagc tttcttttc tgcaaccacg	
			cctgttctag ccgataagaa aaaataccct tattcttcc ggaccgtccc atcagacaat	
			gcggtgaatc cagccattct gaagtgtctc aagcactacc agtggaaagc cgtgggcacg	
			ctgacgcaag acgttcagag gttctctgag gtgcggaatg acctgactgg agttctgtat	
			ggcgaggaca ttgagatttc agacaccgag agcttctcca acgacccctg taccagtgtc	
			aaaaagctga aggggaatga tgtcgggac atccttgcc agtttgacc gaatatggca	
			gcaaaagtgt tctgttgtgc atacgaggag aacatgtatg gtatgaaata tcaatggatc	
			attccgggct ggtacgagcc ttcttggtgg gagcaggtgc acacggaagc caactcatcc	
			cgtgcctcc ggaagaatct gcttgctgcc atggagggt acattggcgt ggatttcgag	
			ccctgagct ccaagcagat caagaccatc tcaggaaaga ctccacagca gtatgagaga	
			gagtacaaca acaagcgtc aggcgtgggg cccagcaagt tccacgggta cgctacgat	
			ggcatctggg tcacgcgcaa gacactgcag agggccatgg agacactgca tgccagcagc	
			cggcaccagc ggatccagga cttaactac acggaccaca cgctgggcag gatcatcctc	
			aatgccatga acgagaccac ctctctcggg gtccagggctc agtttgtatt ccggaatggg	
			gagagaatgg ggaccattaa atttactcaa ttccaagaca gcaggagggt gaaggtggga	
			gagtacaacg ctgtggccga cacactggag atcatcaatg acaccatcag gttccaagga	
			tcgaaaccac caaagacaa gaccatcgc cctcaccatc ctggagcagc tccctacatc	
			ctctacagca tcctctctgc cctcaccatc ctgcggatga tcatggccag tgcctttctc	
			ttcttcaaca tcaagaacccg gaatcagaag ctcataaaga tctcagatcc atacatgaac	
			aaccttatca tccttgaggg gatgctctcc tatgcttcca tatttctct tggccttgat	
			ggatccttbg tctctgaaaa gacctttgaa acactttgca ccgtcaggac ctggattctc	
			accgtgggct acacgacccg ttttggggcc atgtttgcaa agacctggag agtccacgcc	
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			gtggggggca tgcgtctgat cgacctgtgt atcctgatct gctggcaggc tgtggacccc	
			ctgcgaagga cagtggagaa gtacagcatg gagccggacc cagcaggacg ggaatatctc	
			atccgccttc tcctggagca ctgtgagaac acccatatga ccatctggct tggcatcgtc	
			tatgcctaca agggacttct catgttgttc ggttgtttct tagcttggga gacccgcaac	
			gtcagcatcc ccgcactcaa cgacagcaag tacatggga tgaagtgtcta caactgggg	
			atcatgtgca tcacggggcg cgctgtctcc ttctgcacc gggaccagcc caatgtgcag	
			ttctgcatcg tggctctggt catcatcttc tgcagaccca tcacctctg cctgggtattc	
			gtgcgaagc tcataccctc gagaacaaac ccagatgcag caacgcagaa caggcgattc	
			cagttcactc agaatacagaa gaaagaagat tctaaaaagt ccacctcgtt caccagtgtg	
			aaccaagcca gcacatccc cctggaggcg ctacagtcag aaaccatcg cctgcgaatg	
			aagatcacag agctggataa agacttggaag gaggtcacca tgcagctgca ggacacacca	

436	54053	Gaba (b) Receptor 2	NP_005449.1	ctgtaa masprsgqp grppppppp arlllllllp lllplapgaw gwargaprrp psspplsimg p homo sapiens
				gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaaacttca ctgagagcac agatggagga aaggccattt taaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag ccctctcgaa catgcaaga tcctatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cagcctacc tcccatccat cggaggcgtg gacgccagct gtgtcagccc ctgctcagc cccaacgcca gccccgcca cagacatgtg ccaccctcct tccgagtcac ggtctcgggc ctgtaa
				lmpltrevak gsigrgvlpa velaieqirn esllrpfeld lrllydtecdn akglkafyda ikygnhlmv fggvcpvts iiaeslqwn lvqlsfaatt pvladkkkyp yffrtvpsdn avnpaillkl khyqwkrgvt ltqdvqrfe vrndltgvly gedieisdte sfsndpctsv kklkgndvri ilqgfdqma akvfccayee nmygskyo wi ipgwyepsw ewvhteanss rclrnllaa megyigvdee plsskqihti sgktppqyer eynnkrsgvg pskfhyayd giwviaktlq rametlhass rhqriodfny tdhtlgrill namnetnffg vtgqvvrng ermgtikftq fodsrevkvg eynavadtile iindtirfoq seppkdktii leqlrkislrl lysilsalti lgmimasaf l ffniknrnqk likmsspyrn nliilggmls yasiflfgld gsfvsektfe tlctvrtwil tvgyttafga mfahtwrwha ifknvrmkkk iikdqkllvi vggmlldlc ilicwqavdp lrrtveky sm epdpagrdis irpllehcen thmtiwlgiv yaykgllmlf gcflawetrn vsipalndsk yigmsvynvg imcliigaavs fltrdqpnvq fcivalvif cstittclvf vpkltlrltn pdaatqnrrf ektqnqkked sktstsvtsv nqastsrleg lqsenhrlrm kiteledkde evtmqldtp ektyikqn h yqelndiilnl gnftestdgg kailknhlldq npqlwnnte psrtckdpie dinspehiqr rlsllqlpilh haylpslpgv dascvspcv s ptasprhrhv ppsfrvmvsg l
437	55728	ETL protein	NM_022159	gtgaaattta aactccagtc ctgtggcgaa aatgctaatt gcactaacac agaaggaagt a tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gtttatcact aatgatggaa ccgtctgtat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattaataa aactttaaca aaaatcagat ccataaaaga acctgtggct ttgctacaag aagtcctatag aaattctgtg acagatcttt caccaacaga tataattaca tatataga aa tattagctga atcatcttca ttactaggtt acaagaacaa cactatctca gccaaggaca ccttttctaa ctcaactctt actgaatttg taaaaaccgt gaataatttt gttcaagggt atacatttgt agttgggac agttatctg tgaatcatag gagaacacat cttacaacac tcatgcacac tgttgaaaca gctactttta ggatattcca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtct tcaaaagtttt cttttttgat tcataataca tgaacacat tcatcctcat atgaatagg atggagacta cataaatata tttccaaaga gaaaagctgc atagattca atgtgcaact ttgcagttgc atttttatat tataagagta ttggtccttt gctttcatca tctgacaaat tcttattgaa acctcaaaat tatgataatt ctgaagagga gaaaagagtc atatcttcag taatttcagt ctcaatgagc tcaaacccac ccacattata tgaacttgaa aaaataacat ttacattaa gtcacgaaag gtcacagata ggtataggag tctatgtgca ttttggaatt actcacctga taccatgaat ggcagctggc cttcagaggg ctgtgagctg acatactcaa atgagaccca cacctcatgc cgctgtaatc acctgacaca ttttgcaatt ttgatgtcct ctggtccttc cattggtatt

438	55728	ETL protein	NP_071442.1	MCVPGRSSS NQDRFITNDG EYRNSVTDL SPTDIITYIE DTFVWDKLS VNHRRTHLTK MKHIHPHMNM DGDYINIFPK SEEEERVISS VISVSMSSNP SSEGCELTYS NETHTSCRCN CIFTWFEESE IQSTRTTIHK FAWMCIEGIIH LYLIIVGVYI STENNFIWSF IGPACLIILV FLGTTWIFG VLHVHVASVV CFGCLR	TVCIEENVNAN CHLDNVCIAA YKNNTISAKD RISQSFQKTT RKAAYDSNGN PTLYELEKIT NETHFAILMS NLCCSLFLAE NGKFLHKNEY IFGYLSPAVV KVFRHTAGLK PEVSCFENIR FQGMFIFLFL CVLSRKIQEE YRRLFQNVPC	CHLDNVCIAA NINKTLTKIR TLNSNTLTFE VKTVNNFVQR EFDTNSTDIA LKVFFFDSYN IGPLLSDDN FLKPKQNYDN RYRSLCAFWN YSPDTMNGSW NILTRITQLG IISLICLAI TNKLFCSIIA GLHYFFFLAA VGFSALGYR YGTTKVCWL SCARGALALL	SIKEPVALLQ P sapiens
439	56923	Muscarinic acetylcholin e Receptor M3	NM_000740	atgacactgc acaataaacag cctccgatgc agggctgccc gagcagctgg caattctccc ccgtctggca agtggctctc tcggcaacat cctggtaatt gtgtcattta aggtcaacaa gcagctgaag	tacaacctgc cctttgtttc cggggaaccg tcaactcatt tctccagacg gtaccaccga atcgctttct taacgggcat cctggccttg	caaacatcag ctcctcctgg tcaactcatt cggcagctac gtaccaccga tgaccctctg taacgggcat cctggccttg aggtcaacaa gcagctgaag	Homo sapiens

aaagattata atattcttac aagattcaact caactaggaa taattatttc actgatttgt
 cttgccatat gcattttttac cttctgtgtc ttcaagttaa ttcaagcac caggacaaca
 attcaaaaa atctttgtcg tagcctattt cttgctgaac ttgtttttct tgttgggac
 aatacaata ctaataagct cttctgttca atcattggcg gactgctaca ctacttcttt
 ttagctgctt ttgcatggat gtgcattgaa ggcatacatc tctatctcat tgttgtgggt
 gtcattaca acaaggatt ttgtgacaag aattttata ttttgggcta tctaagccca
 gccgtggtag ttggatttcc ggcagcataa ggatagatc attatggcac aacaaagta
 tgttggctta gcaccgaaaa caactttatt tggagtttta taggaccagc atgcctaac
 attcttgta atctctggc ttttggagtc atcatataca aagttttttcgc tcacactgca
 gggtgaaac cagaagttag ttgctttgag aacataaggt cttgtgcaag aggagccctc
 gctctctgt tcttctcgg caccacctgg atctttgggg ttctccatgt tgtgcacgca
 tcagtggta cagcttacct cttcacagtc agcaatgctt tccaggggat gttcattttt
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 ccaattatta actactagac aaaaagtatt ttaaatcagt ttttctgttt atgctatagg
 aactgtatg aataaggtaa aattatgtat catatagata tactatgttt ttctatgtga
 aatagttctg tcaaaaatag tattgcagat atttggaaag taattgggtt ctcaggagtg
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 aggaaccac tggcttgata ttctctgtgac tcgtgttgcc ttgaaacta gtcccctacc
 acctcgtaa tgagctccat tacagaaagt ggaacataag agaataaagg ggcagaatat
 caaacagatga aaagggaatg ataagatgta ttttgaatga actgtttttt ctgtagacta
 gctgagaaat tgttgacata aaataaagaa ttgaagaac acattttacc atttgtgaa
 ttgttctgaa cttaaatgtc cactaaaca acttagactt ctgtttgcta aatctgtttc
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440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	<p>acggtcaaca actacttctt ctttaagcctg gacctgtgacg atctgattat cgggggtcatt tcaatgaatc tgttttagac ctacatcatc atgaatcgat gggccttagg gaacttgccc tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaactttctg gtcatcagct ttgacagata cttttccatc acgagccgc tcacgtaccg agcaaacga acaacaaaga gagccggtgt gatgatcggt ctggcttggtg tcatctctt tgccttttgg gctcctgcca tcttggtctg gcaatacttt gttagaaga gaactgtgcc tccgggagag tgcttattc agttcctcag tgagccacc attactttg gcacagccat cgtgctttt tatatgctg tcaccattat gactatttta tactggagga tctataaga aactgaaaaa cgtaccaaa agcttgctg cctgcaagcc tctggagag aggcagagac aaaaaacttt gtccacccca cgggcagttc tcgaagctgc agcagttacg aacttcaaca gaaagcatg aaacgtcca acaggaggaa gtatggcgc tgccacttct ggttcaaac caagagctgg aaaccagct ccgagcagat ggaccaagac cacagcagca gtgacagtgt gaacaacaat gatgtgctg cctccctgga gaactcgcgc tctccgagc aggagacat tggctccgag acgagagcca tctactccat cgtgctcaag ctccgggtc acagaccat cctcaactcc accaagtac cctcatcgga caactcgag gtgctgagc aggagctgg gatggtggac ttggagagga aagccgacaa gctgagggc cagaagagcg tggacgatgg aggcagtttt ccaaaagct tctccaagct tcccatccag cttaggtcag ccgtggacac agtaagact tctgacgtca actcctcagt gggtaaagc acggccactc tacctctgc cttcaaggaa gccactctgg ccaagaggtt tgcctgaag accagaagtc agatcactaa gcgaaaaagg atgtccctgg tcaaggagaa gaaagcgcc cagaccctca gtgcgatctt gcttgcttc atcatcactt ggaccccata caacatcatg gttctggtga acacttttg tgacagctgc atacccaaaa ccttttgtaa tctgggctac tggctgtgct acatcaaac caccgtgaac ccgtgtgct atgctctgtg caacaaaaa cttcagaacca ctttcaagat gctgctgctg tgccagtgtg acaaaaaaaa gaggcgcaag cagcagttac agcagagaca gtccgtcatt tttcaacaag gcgcaccga gcaggccttg tag</p>	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839	<p>GGHTVWQVVF IAFLTGILAL VTIIGNILVI VSEKVNKQLK PGTVTHFGSY NVSRAAGNFS SPDGTTDDPL P SMNLFITYII MNRWALGNLA CDLWLADYV ASNAVNMNL VISFDRYFSI TRPLTYRAKR TTKRAGVMIG LAWVISFVLW APAILFWQYF VGRRTVPPGE CFIQFLSEPT ITFGTAIAAF YMPVTIMTIL YWRIYKETE RTELKELAGLQA SGTEAETENF VHTGSSRSC SSYELQQQSM KRSNRRKYGR CHFWEFTKSW KPSSEQMDQD HSSSDSWNNN DAAASLENSA SSDEEDIGSE TRAIYSIVLK LPHGSTILNS TKLPSSDNLQ VPEELGMVD LERKADKLOA QKSVDGGSF PKFSKLPDQ LESAVDTAKT SDVNSSVGS TATLPLSFXE ATLAKEFALK TRSQITKRKR MSLVKEKKA QTLSAILLAF IITWTPYNIM VLVNTFCDS IPKTFWNLGY WLCYINSTVN PVCYALCNKT FRTTFKMLLL CQCDKKRRK QYQYQYQSVI FHKRAPEQAL gaaactggcc ctggccctga accaaatacc ttgaacctc gtaaaactca taccctgacc A ccctgtgttt ggataatac aggtagaaca actctcttc actgtctgtt gtgagatatac gctgtagccc atcattataag tacattctcc taataaatgc ttgtgactga tcacctgccc agtcttttgt ctggggcaat ctatacttt ctgagaggtt cccaaggcct actgaaggga cttaacatac tcttaatggc ttctctctt ctgtttttac cttatgcct cacttctga gttaacctcc caaatacagg atcacctgta ccaagccct tagctcaaga atacaggatc</p>	Homo sapiens

acctgtaccc aagcccttag ctcaagctct gctttggaag aacccaaact aagacagtgc
tcttggtgcc ctcccaagc aacctcaagt tctggctggt acttgagcag aggcctttct
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445	74514	5-HT5A Receptor	NM_024012	LTEQTLKGRLL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPGRD HLNQVAMNVR TGSAQADGSD SEKP	atggatttac cagtgaacct aacctctttt tccctctcca cccctcccc tttggagacc A aaccacagcc tcggcaaga cgactgcgc ccagctctgc cctgtctctc ggtcttcgga gtgcttattc tcacctgtct gggctttctg gtggcgcgga cgttcgctg gaacctgctg gtgtggcga ccactctcg tttacgcacc ttcacacgcg tgcacacaa cctggtggca tccatggccg tctcgatgt cctggtggcc ggcgtggtca tgcgctgag cctggtgcat gagctgtccg ggcgcgctg gcagctaggt cggagctgt gccagctttg gatcgctgc gacgtgcttt gctgcacggc cagcatctgg aacgtgacgg ccatagcctt ggaccgctac tggctccatca cgcgccacat ggaatacacg ctccgaccc gcaagtgcgt ctccaacgtc atgacgcgc tcacctgggc actctcgct gtcactctc tggccccgct gctttttggc tggggagaga cgtactctga gggcagcag gagtgcagg taagccgga gccttctac gccgtgttct ccaccgtagg cgccttctac ctgcgctct gtgtgtgtct ctctgtgtac tggagatct acaaggctgc caagttccgc gtgggtctca ggaagaccaa tagcgtctca cccatatccg aagctgtgga ggtgaaggac tctgcaaac agccccagat ggtgttcacg gtccgccag ccaccgtcac ctccagcca gaaggcgga cgtggcgga gcagaaggag cagcggccg cctcatggt gggcatctc attggcgtgt tctgtctctg ctggtcccc ttcttttca cggagctcat cagtcctctc tgcctctgt acatccccg catctggaaa agcatcttc tgtgcttg ctactcaac tcttctta accctctg ctatacgct ttcaacaaga actacaacag cgccttcaag aactctttt ctaggcaaca ctga cactacaaga sltspstlet nhsigkddl ALVMPLSLVH ELSGRRWLQ RRLCQLWAC P VLATILVRT FHRVPHNLVA SMAVSDVIVA ALVMPLSLVH ELSGRRWLQ RRLCQLWAC P DVLCTASIW NVTALDRY WSITRMEYT LRTRKCVSNV MIALTWALSA VISLAPLIFG WGTYSEGSE ECQVSREPSY AVFSTVGAFY LPLCVLVFVY WKIYKAARF VGRKTNVS PISEAVEKD SAKQPMVFT VRHATVTFQ EGDWREQKE QRAALMVGIL IGVFVLCWIP FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFENPLIYA FNKNYSAPK NFFSRQH gtaatgcaga gataaaaa cttcttaggt ccataggtct tataataatt taataaccta A aacatggtat acaaatctct ccaaaccaa taacataatt atagtttcaa aagttcccc aaactttcaa gtagattttt attgcttga tgaatggtt taaatatgaa aagttctgcc tgtgaaggc aatccttttc ccgtggactg ggtctatag aaatacagaa atgtgccag gggttcatct cctataaac catcattcac atttctaac ctccctaata accagccacc atgtgagaag gatccacagt tactgtttat gactataatt aactagtaac tgggactggt cagtggagtt ggttgaacc tgatgctaag gatgtcaaa ttgtctcggc ctctgttccc agccagtaag taattccctg gcctcgcc ataccctta atcttggtca gctgattatg acaggcagac agcacagtaa ataactat atattagaa aacccaaagc atatgtatca atggtatata ccaacagca tcctaggaat tttagaat tagcaaggc ctccaatgtg aaggtcaaca cagtcactgt gatcggtga ttctcattt gtaaacatg atctctggtg gtcattttta tcttctaac ttattggaaa agtctctgt tttggggccc cgcctctggt cacagccaga ctgactcagt ttccctggga ggtcccgctc gagcccgctc tccccccc tctgcccgc ccagccctc gcccacct cggcgccgc acatctgct gctcagctcc agacggcgc cggacccccg ggcgcgggat ccagccaggt gggagccccg cagatgaggt	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1			Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060			Homo sapiens

448	81765	Thromboxane A2 Receptor	NP_001051.1	<p> ctctgaagggt gtgcctgaac cagtccagc ctgcctgtc tgcagcatcg gcctgatggg gtggtgactg atccctcagg gctccggagc catgtggccc aacggcagtt ccctggggcc ctgtttccgg ccacaaaca ttaccctgga ggagagacgg ctgacgcct cgcctgggtt cgccgctcc ttctgctggg tggcctggc ctcaacctg ctggccctga gcgtgctggc ggcgcgcg cgagggggtt cgcacacgg ctctctctc ctacacctc tctggcgctt cgctctacc gacttctgg ggctgctgtt gaccgggtacc atcgtggtgt cccagcacgc cgcctcttc gagtggcacg ccgtggacc tggctgcgt ctctgctgct tcatggcggt cgtcatgac ttcttcggc tgtcccgct gctgctggg gccgcatgg cctcagagcg ctacctgggt atcacccgc cttctcgcg ccggcggtc gcctcgagc gccgcgctg ggccacgtg gggctggtgt gggcgccgc gctggcgctg gcctgctgc ccctgctggg cgtgggtcgc tacacgtgc aataccggg gtccgtgtgc tctcgagc tggcgccga gtccgggac gtggcctcg ggtgctctt ctccatgctg ggcggcctc cgtcgggct gtccttctg ctgaacacgg tcagcgtggc caccctgtc cactctacc acgggcagga ggcgcccg cagcgtccc ggtgactcga ggtggagat atggctcagc tccctgggat catgtggtg gccagcgtgt gttggctgc cttctgtgtc ttcattgcc agacagtgt gcgaacccg cctgcatga gcccgcggc gcagctgtc cgcaccacgg agaaggact gtcatctac ttgcgctgg ccacctgga ccagatcctg gaccctggg tgtatctct gtccgcgc gccgtgctc ggcgtctcca gctgcctc agcaccggc ccaggtcgt gtccctccag cccagctca cgcagcctc cgggtgcag taggaagtgg acagagcgc cctcccgcc cttcccgcg agccttggc ccctggaca gcccatctg cgttctctgag gattcagggg ctgggggtgc tggatggaca gtggcatca gcagcaggt tttgggtga cccaatcca accggggac ccccaactc tccctgata tttaccaag cactctcct tccctggcc ctttttcca tccagagctc ccaccttc tctgctccc tcccaacccc aggaaggga tgcagacatt ggaagagggt cttgcatgc tattttttt tttagacgga gtctgtctt gtcccccagg ctggagtga gtggcgcaat ctcagctcac tgcacctcc acctccggg ttcaagcgt tctcctgct cagcctcctg agtagctgg actataggc cgcgccacca cgcgggcta attttgtat ttttagtaga gacggggtt caccgtgtg gccagctgg tctgaactc ctgacctcag gtgattcac agcctcagc tcccaagt ctgggatcac aggcataac caccacact ggcattttt ttttttttt tagacggagt ctcactctgt gcccagcct gggtacagt ggcacgatc cggctcact caacctccg ctcccggtt caagcgattc tctgacctc gcctcccgag cagctgggat tacaggcgta agccactgg cccggccttg catgctctt gacctgaat ttgacctact tgcggggta cagttgctc cttttgaac tccaacagg aggcctctgt ccagaaagg ttgaatgtga aacggggga ccccttttc ttgcaaaa atactctgc ctttggttt at </p>	Homo sapiens
				<p> MPNGSSSLGP CCRPTNITL ERRLIASPF AASFVVGLA SNLLALSVLA GARQGSHTR P SSFLTFLCGL VLTDFLGLV TGTIVVSQHA ALFEHVAADP GCRLCRFMGV VNIFFGLSPL LLGAAMASER YLGITRPFSS PAVASQRRW ATVGLVWAAA LAIGLLPLLG VGRYTVQYPG SWCFLTLGAE SGDVAFGLF SMLGGLSVGL SFLNLTVSVA TLCHVYHGQE AAQRPRDSE VENMAQLLGI MVVASVCWLP LLVFAQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN QILDWPVYIL FRAVLRLQ PRLSTRPRSL SLQPLTQRS GLQ </p>	

449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NM_005283	atggagtctc caggcaacc agagagcacc accctttttt actatgacct tcagagccag A ccgtgtgaga accaggcctg ggtctttgt accctcgca ccaactgtct gtactgcctg gtgtttctcc tcagcctagt gggcaacagc ctggtctctg ggtccttgt gaagtatgag agcctggagt cctcaccaa catcttcac ctcaacctgt gcctctcaga cctggtgttc gcctgcttgt tgctgtgtg gatctccca taccactggg gctgggtgct gggagacttc ctctgcaaac tctcaatat gatcttctc atagcctct acagcagcat cttcttctg accatcatga ccatccaccg ctacctgtcg gtagtgagc cctctccac cctgcgcgc ccacacctcc gctgcgggt gctggtgacc atggtgtgt ggttagccag catcctgtcc tccatcctcg acaccatctt ccacaagggt ctttcttcgg gctgtgatta ttccgaactc acgtgttacc tcaactccgt ctaccagcac aactcttct tctgctgtc cctggggatt atcctgttct gctacgtgga gatcctcagg accctgttcc gctcagctc caagcggcgc cacgcacagg tcaagctcat cttcgccatc gtggtggcct acttctcag ctggggtccc tacaacttca cctgtttct gcagacgtg ttctggacc agatcatcg gagctgcgag gcaaacagc agtgaata cgcctgtc atctgcgca accctgcct ctcccactgc tgctttaacc cgtgctcta tgtcttcgt ggggtcaagt tccgcacaca cctgaaacat gtctccggc agttctggt ctgcggcgt caggcaccca gccagcctc gatccccac tccctgggtg cctcgcccta tgaggcgc tcttctact ga	Homo sapiens
450	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NP_005274.1	MESSGNPEST TFFYYDLQSQ PCENQAVFA TLATTVLYCL VFLLSLVGNS LVLWLVKYE P SLESLTNIFI LNCLSDIVF ACLLPVWISF YHWGVLGDF LCKLLNMIFS ISLYSSIFFL TIMTIHRYIS VNSPLSLRV FTLRCVLVT MAVVASILS SILDITIFHKV LSSGCDYSEL TWYLTSVYQH WFLLLSLGI ILFCYVEILR LFRSRSKRR HRTVKLIFAI VVAYFLSWG P YNFTLFLQTL FRTQIIRSCE AKQOLEYALL ICRNLAFSHC CFNPVLYVFV GVKFRTHLKH VLRQFWFCRL QAPSPASIPH SPGAFAYEGA SFY	Homo sapiens
451	130108	G Protein-Coupled Receptor GPR75	(NM_006794	gcgatggcga tgaatcctct agtctgcat catccagagc ggcaggcag ctgggggtccg A gactgcgaga tggaggagg ggcgctgag gcaccggca ggcttatctg tcttgggcct cttttgcac atattgtca tctgtgagct gagccctga ctcactgagt attttgggg agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc cccaatgcc cctgcctcca tctgcctcac tcacaggaa gaaacagcac cctctccag gagggtcttc agtatctcat ccacacagcc accttggta cctgtacttt tctactggcg gtcatcttct gcctgggttc ctatggcaac ttcattgtct tcttgcctt cttcgatcca gccttcagga aattcagaac caactttgat ttcatgatcc tgaacctgtc cttctgtgac ctcttcatt gtggagtga agccccatg ttcacctttg tgttattctt cagctcagcc agtagtatcc cggatgcttt ctgcttcaact ttccatctca ccagttcagg cttcatcatc atgtctctga agacagtgc agtgcctgc ctgcaccggc tccggatggt gttggggaaa cagcctaac gcacggcctc ctttccctgc accgtatgc tcacctgtct tctctgggccc accagtttca ccttggccac ctgggtacc ttgaaaacca gcaagtccca cctctgtctt cccatgtcca gctgattgc tggaaaaggg aaagccattt tgtctctcta tgtgtcgcac ttcaccttct gtgtgtgtg ggtctctgtc tcttaccatca tgattgtcga gacctgcgg aagaacgctc agtcagaaa gtgccccctt gtaatacag tcatgtctc cagaccacag cctttcatgg ggtccctgt gcaggagggt ggagatccca tccagtgtgc catgccggct ctgtatagga accagaatta caacaaactg cagcacgttc agaccgttg atataccaag	Homo sapiens

452	130108 G Protein- Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactggtcac ccctgcagca agccgactcc agctcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctggtgtgct gtcttccact ggggatttcc ttggtacagg ttggtctctc cagcaatggg agcttcattc ttaccagtt tgaattgttt ggatttactc ttatatattt caagtcagga ttaaaccttt ttatatattc tcggaacagt gcagggtcga gaaggaaagt gctctggtgc ctccaataca taggcctggg tttttctgc tgcaaacaaa agactcgact tcgagccatg ggaaaaggga acctcgaagt caacagaaac aaatcctccc atcatgaaac aaactctgcc tacatgttat ctccaaagcc acagaagaaa ttgttgacc aggtttgtgg cccaagtcat tcaaaagaaa gtatggtgag tcccaagatc tctgctggac atcaacactg tggtcagagc agctcgacct ccatacaac tcggattgaa ccttactaca gcatctataa cagcagccct tcccaggagg agagcagccc atgtaactta cagccagtaa actcttttgg atttgccaat tcatatatgt ccattgcatta tcacaccact aatgacttag tgcaggaaata tgacagcact tcagccaagc agattccagt ccctccgtt taaagtcagt gaggtatag gatcttatgt aaacagtttt tgtttctgat agtaattggac ttattcttaa ctgagatca gtggcggatc aaaacctaca agattcaact gaaaagtggc cagttatggt tttctttcat ctgatgtgtc agtatctgtt gatttgcttt gtagtttgtt gacatcttaa gatttgatgt gaaagtttta gattttttac cctg </p>	Homo sapiens
453	133117 G Protein- Coupled Receptor RAIG1	NM_003979	<p> MNSTGHLQDA PNATSLHVPH SQEGNSTSLQ EGLQDLIHTA TLVTCFLLA VIFCLGSYGN P FIVFLSFDDP AFRKRTNFD FMILNLSFCD LFICGVTAPM FTFVLFFSSA SSIPDAFCFT FHLTSSGFII MSLKTVAVIA LHLRLMVLGK QPNRTASFPC TVLLTLLWA TSFTLATLAT LKTSKSHLCL PMSLTIAGKG KAILSLYVVD FTRFCVAVSV SYIMIAQTLR KNAQVRKCPP VITVDASRPQ FMGVPVQGG GDPIQCMPA LYRNQYNVNL QHVQTRGYTK SPNLVTPAA SRLQLVSAIN LSTAKOSKAV VTCVILVLSV LVCCPLGIS LVQWVLSNG SFILYQFELE GFTLIFFKSG LNPFIYSRNS AGLRRKVLWC IQYIGLFFC CKQKRLRAM GKGNLEVRN KSSHHEITNSA YMLSPKPQKK FVDQACGPH SKESMVSPKI SAGHQHCGQS SSTPINTRIE PYYSIYNSSP SQEESSPCNL QVNSFGFAN SYIAMHYHTT NDLVQYDST SAKQIPVPSV ataacagcat gaagtgcctg ggaactggaa taggcgtgtc ctctccctcg accctcccc A tccttgtccc tctgtcacc cctcgtcgt tccctccctc cggcgagggc cgcctttata acaactgttc agagtgcag ggcgggatag ctgtccaaag tctccccag cactgaggag ctgcctgtct gccctcttgc gcgcgggaag cagcaccaaag ttcacggcca acgccttggc actagggtcc agaattgcta caacagtccc tgatggttgc cgcaatggcc tgaatccaa gtactacaga ctttgtgata aggtggaagc ttggggatc gtctagaaa cgggtggccac agccggggtt gtacacctgg tggccttcat gctcactctc cggatccctg tctgcaaggt gcaggactcc aacaggcgaa aaatgctgcc tactcagttt ctcttctcc tgggtgtgtt ggcatcttt ggcttcaact tgccttcat catctgactt gacgggagca caggggccac acgcttcttc ctcttttggga tctcttttc tccctgttgc tccctgttgg tgattctggg tgtcagtcgt accaagctcg tccgggggag gaagccctt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtccagg tagttatcgt attgaatata ttgtcctgac catgaatagg accaagctca atgtcttttc tgagctttcc gctcctcgtc gcaatgaaga ctttgtcttc ctgtcaccct acgtcctctt cttgatggcg ctgaccttcc tcatgtcctc cttcaccttc tgtgttctct tcacgggctg gaagagacat gggggccaca tctacctcac </p>	Homo sapiens

Homo
sapiens

NP_003970.1

133117 G Protein-
Coupled
Receptor
RAIG1

454

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Homo
sapiens

NM_001057

152198 Tachykinin
Receptor 2

455

456 152198 Tachykinin Receptor 2 NP_001048.1 Homo sapiens

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 CVVAWPEDSG GKTLLYLHLV VIALIYFELP AMFVAYSVI GLTLWRRVAVP GHQAHGANLR
 HLQAKKKFVK TMVLVLTFE ICWLPYHLYF ILGSFQEDIY CHKFIQQVYL ALFWLAMST
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457 152201 Thyrotropin Receptor NM_000369 Homo sapiens

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 taacaacgct cattattacg tcttctttga agaacaagag gatgagatca ttggttttgg
 ccaggagctc aaaaacccc aggaagagac tctacaagct ttgacagcc attatgacta
 caccatatgt ggggacagt agacatggt gtgtacccc aagtcaggat agttcaaccc
 gtgtgaagac ataattgggt acaagttcct gagaattgtg gtgtgggttcg ttagtctgt

458	152201	Thyrotropin Receptor	NP_000360.1	<p> ggctctcctg ggcaatgtct ttgtcctgct tattctctc accagccact aaaaactgaa cgccccgc tttctcatgt gcaacctggc ctttgcgat ttctgcagg gtaggtacat gtctctcat gcctctgtag acctctaac tactctgag tactacaac atgccatcga ctggcagaca ggccttgggt gcaaacaggc tggttcttc actgtctttg caagcagatt atcggtgtat acgtgacgg tcatcacct ggagcgtgg tatgccatca ccttcgccat ggcctggac cggaagatcc gcctcaggca ccatgtgcc atcatgggtg gggcctgggt ttgtcgttc cttctgccc tgcctcctt ggtgggaata agtagctatg ccaagtcag tatctgctg cccatggaca ccgagacccc tcttgcctg ccataatattg ttttcttct gacgtcaac atagttgct tcgtcatcgt ctgctcgtg catgtgaaga tctacatcac agtcgaaat ccgagtaga acccagggga caaagatacc aaaattgcca agagtaggc tgtgtgato ttcacgact tcataatgcat ggcaccaatc tcattctatg ctctgtcagc aattctgaac aagcctctca tcaatgttag caactccaaa atcttgctgg tactcttcta tccacttaac tcctgtgcca atccattcct ctatgctatt ttcaccaagg ccttcacag ggatgtgtc atctactca gcaagtttgg catctgtaaa cgccaggctc aggcataccg gggacagagg gttctccaa agaacagcac tgatatcag gtcaaaaagg ttaccacaga catgagcag ggtctccaa acatggaaga tgcctatgaa ctgattgaaa actcccatct aaccaccaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgaagttaa cactacacta ctcaaatgg taggggaact taaaaataa tagtttctg aatatgcatt ccaatcccat </p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p> caggactgac tgagacaagc cacaagctga acagagaag tggattgaac aaggacgcat A ttccccagta catccacaac atgctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accacctttt ttgattatga ttacgggtgct cctgtcata aatttgacgt gaagcaaat ggggcccac tcctgcctcc gctctactcg ctgggtgtca tctttggtt ttgtggcaac atgctggctg tcctcatctt aataaactgc aaaaagctga agtgcctgac tgacatttac ctgctcaacc tggccatctc tgatctgctt tttctatta ctctccatt gtgggctcac tctgtgcaa atgagtggtt ctttgggaat gcaatgtgca aattattcac agggctgtat cacatcggtt attttggcg aatcttcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgctttaaaa gccaggacgg </p>	Homo sapiens

460	152245 C-C	NP_000639.1	Chemokine Receptor 2	MLVLLILINC KKLKCLTDIY ILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITLWVAF ASVPGIIFTK CQKEDSVYVC GPYFPRGMN FHTIMRNILG LVPLLLIMVI CYSGLKTL RCRNEKKRHR AVRVIFTMI VYFLFWTPYN IVILLNTFQE FFGLSNCEST SQLDQATQVT ETGLMTHCCI NPIIYAFVGE KFRRYLSVFF RKHITKRFEK QCPVFYRETV DGVTSNTIPS TGEQEVSAAGL CAGAAATCCT CAGGTCCAC AGAAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGGTGGCTT CCTTCTCTAG GCCCAGGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAA TAGGGAACCC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AGAACACAGTT AAGTCAGAGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCACCTTTAT TCTTTTCTT TTCTTGAATT TATTTCCATF TGTATTATCC TAAATTCCT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGA AGGATTTGAC TTTACAGCAG AGACTTCAGA AGGAGTCCTC TCTAGGAGCA AATTGGGGG AATCCAGTGG GAAGGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT	Homo sapiens
461	152299 Interleukin- 8 Receptor A	LG5459		MLSTSRSRFI RNTNESGEEV TTFEDYDGA PCHKFDVKQI GAQLLPPLYS LVFIQFVGN P MLVLLILINC KKLKCLTDIY ILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITLWVAF ASVPGIIFTK CQKEDSVYVC GPYFPRGMN FHTIMRNILG LVPLLLIMVI CYSGLKTL RCRNEKKRHR AVRVIFTMI VYFLFWTPYN IVILLNTFQE FFGLSNCEST SQLDQATQVT ETGLMTHCCI NPIIYAFVGE KFRRYLSVFF RKHITKRFEK QCPVFYRETV DGVTSNTIPS TGEQEVSAAGL CAGAAATCCT CAGGTCCAC AGAAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGGTGGCTT CCTTCTCTAG GCCCAGGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAA TAGGGAACCC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AGAACACAGTT AAGTCAGAGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCACCTTTAT TCTTTTCTT TTCTTGAATT TATTTCCATF TGTATTATCC TAAATTCCT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGA AGGATTTGAC TTTACAGCAG AGACTTCAGA AGGAGTCCTC TCTAGGAGCA AATTGGGGG AATCCAGTGG GAAGGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT	Homo sapiens

agctgttaag tcactctgat ctctgactgc agctcctact gttggacaca cctggccggt A
gcttcagtta gatcaaacca ttgctgaac tgaagaggac atgtcaata ttacagatcc
acagatgtgg gattttgatg atctaaattt cactggcatg ccactggcag atgaagatta
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gttggcctgc atcagtgtgg accgttacct gccattgtc catgccacac gcacactgac
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cacctttggc ttcatcgtgc cgtgtttgt catgctgttc tgctatggat tcacctgag
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ggatgccact gagattctgg gatttctcca tagctgcctc aacccatca tctacgcctt
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acacctgag gttgtgtgtg gaaggtgatc tggctctgga caggcactat ctgggttttt
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ttctgaggag ctgttgaggt acctccaaag accggccttt gcacctccat ggaacggaag
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gcagccctta gcccttccc tctgcagctt ccaggctggc gtgcagcatc agcatcccta
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tgaaggcag tgttccctgg gactttaaact ctgctagaa cagtctcttg aggcacagaa
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cttgcctagg catagcctgc ctcaagctat gtgagctcac cagtcctccc ccaaatgctt
tccatgagtt gcagtttttt cctagtctgt ttctcctctt tggagaacag ggcctgtctg
gtttgttcac tgtatgtcct tgggtgcctgg agcctactaa atgtcaata aataatgatc

463	152299 Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcatgctg aaaagaccac tctttt	MSNITDPQMW DFDDLNTGGM PPADEDYSPC MLETETLNKY VVIAAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLFAL TLPWAASKV NGWIFGTFLC KVSLLKEVN FYSGILLAC ISVDRTIAIV HATRTLQKR HLKFEVCLGC WGLSMNLSLP FFLFRQAYHP NNSSPVCYEV LGNDTAKWRM VLRIPLHTFG FIVPLFVMLF CYGFTLRLEF KAHMGQKHRA MRVIAFVLI FLLCWLPYNL VLLADTLMRT QVIOESCERR NNIGRALDAT EILGFLHSCL NPIIYAFIQ NFRHGFLLKIL AMHGLVSKF LARHRTSYT SSSVNVSSNL	Homo sapiens
464	158822 Mas Proto-Oncogene	NM_002377	cctgagcct cctcatgat gggctcaaacg tgacatcatt tgggtgtgag gaaccacga A acatctcaac tggcaggaac gcctcagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tcccagtg ggtttgtga gaatgggatt ctcctctggt tcctgtgctt ccggatgaga agaaatccct tcaactgtca catcacccac ctgtctatcg cagacatctc actgctcttc tgtattttca tcttgctat cgaactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttggct acaaacggg cctctatctg ctgacggcca ttagtggtga gagtgccctg tcagtccctt acccatctg gtaccgatgc catgcacca agtaccagtc ggcattggctc tggcccttc tgtgggctct tcttgcttg gtgaccacca tggagtatgt catgtgcac gacagagaag aagagagtca ctctcggaat gactgcgag cagtcacatc cttatagcc atcctgagct tcctggctt cagccctc atgctgggtg ccagcaccat cttggtcgtg agatccgga agaacacgtg ggttcccat tcctccaagc ttacatagc catcatggc accatcata tattcctcat ctctgctatg cccatgagc tcctttacct gctgtactat gattattggt cgaccttgg gaaacctac cacattccc tgctcttctc cacaatcaac agtagcgcca acctttcat ttactcttt gtgggaagca gtaagaagaa gagattcaag gagtccctaa aagtgttct gaccagggt tccaaagatg aaatgaacc tcggcgccag aaagacaatt gtaatacgtt cacagttgag actgtcgtct aagaactgtg agggaaagtgt tggataaaaa tgggtgaaca caggtcattt ttagtttgtg cttggaatat gacttaagta tctcctaaat gtgatacaga agaacatctc atcccatg catgagatc taattaatga tgaaa MDGSNVTsfV VEPTNISTG RNASVGNAHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P MRRNPFVYI THLSIADISL LFCIFILSID YALDYELSSG HYXTIVTSLV TFLFGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTTMEYVM CIDREEESH RNDCRAVLIIF IAILSFLVFT PMLVVSSTIL VVKIRKNTWA SHSKLYIVI MVTIIFLIF AMPMRLLYLL YYEYWTSTFGN LHHISLLFST INSSANPFY FVGSKKKR FKESLKVLT RAFKDEMQR RQKDNCTVT VETV	Homo sapiens	
465	158822 Mas Proto-Oncogene	NP_002368.1			
466	159152 G Protein-Coupled Receptor GPR43	NM_005306	atgctgcgg actggaagag ctcttgatc ctcatggctt acatcatcat ctctcact A ggcctccctg ccaacctct ggcctgctg gcctttgtg ggcggtaccg ccagccccag cctgcacctg tgcacatcct cctgctgagc ctgacgctg ccgacctcct cctgctgctg ctgctgacct tcaagatcat cgaggctgcg tcgaacttcc actggtacct gcccaaggtc gtctgcgcc tcacagattt tggcttctac agcagcatct actgcagcac tgggtcctg gcgggcata gcatcgagcg ctacctggga gtggctttcc ccgtgcagta caagctctc cgccggcctc tgtatggagt gattgcagt ctgggtggct ggttatgtc cttggtcac tgcaccatcg tgatcatcgt tcaatactg aacacgactg agcaggtcag aagtggcaat	Homo sapiens	

Homo
sapiens

467 159152 G Protein-Coupled Receptor GPR43 NP_005297.1

gaaattacct gctacagaaa cttaccgat aaccagtgg acgtggtgct gcccgctgcg
ctggagctgt gcctgtgct cttcttcac cccatggcag tcaccatctt ctgctactgg
cgtttgtgt ggatcatgct ctccagccc ctgtggggg cccagaggc gcgcccagcc
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cgcagaggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa
gggatgcaa gttcgactt cactacagag tag

MLPDMKSSLI LMAYIIIFLT GLPANLLALR AFVGRIRQPQ PAPVHILLS LTLADLLLLL P
LLPFKIEAA SNFRWYLPKV VCALTSGFY SSIYCSWLL AGISIERYLK VAFPVQYKLS
RRPLYGVIAA LVAWMSEFGH CTIVIIQYL NTTEQVRSNG EITCYENFTD NQLDVLVPR
LELCVLFFI PMAVTIFCYW RFWMILSQ LVGAQRRRA VGLAVVTILN FLVCFGPYNV
SHLVGYHQRK SPWRSIAV FSSLNASLDP LLFYESSVV RRAFGRGLQV LRNQSSLLG
RRGKDTAEGT NEDRGVGQGE GMPSSDFTTE

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sapiens

468 159973 Vasoactive Intestinal Polypeptide Receptor 1 NM_004624

ggccacaggc cagcgccact ctgccaggct cccggccatc gccggcctgg tgcgcccgc A
gccagctctt tgcccgcgc gggccgcgcg ccgcgggctc agggcagacc atgcgcccgc
caagtccgct gccgcgcgc tggctatgct tgcctggcag cgcctcgcg tggcccttg
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ttaagcctga agtgaagatg gtctttgagc tcgttctggg gtctttccag ggttttgtgg
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gcagcaacgg cggcacgtgc agcacgagcgt ttccatgct gaccgcgtc agcccaggtg
cccgcgctc ctccagctc caagccgaag tctcctggt ctgaccacca ggtatccagg
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469	159973	Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	MRPPSPLPAR WLCVLGALA WALGPAGQA ARLQEEDYV QMIEVQHQC LEEAQLNET P	Homo sapiens
				tctggtcggg acactcctag agaacgcagc cctagagcct gctggagcg tttctagcaa gtgagagaga tgggagctcc tctcctggag gattgcaggt ggaactcagt cattagactc ctctccaaa ggcctccac gccaataag gcaaaaagt ctacatactt teactctgac tctgccccct gctggctctt ctgccaatt ggagaaagc accggtgga tectcaaac acactgggtg gactgaggc cagaaagtt ctgccgggg aagtcacca geaccaaac cacgtagtg cctgaattt caccattgt gtcaagttcc ttgggttaa gattaccac tcaggcattt gactgaagat gcagtcact acctattct ctcttacgc ttagtatatc gctttttaa gtgggttatt ctggagttt ttgttggaga gcacacctat cttagtggtt cccacgaa gtggactggc cctgggtca gtctgtggg aggcggtgc aaccaagg ctgaggact ctgaagctc ttggaatga gaagcagcc accagcgaat gtaggtctc ggactaagcc tacctgctc ccaagtctc gtggtctcat ctgtcaagt ggatctgtc caccagccat acttatctc ctgtgctgtg gaagcaacag gaatcaagag ctgcccctc tgtccacca cctatgtgc aactgtgtg actaggtca gactgtgca ccatgggct ctgacagaaa gcagatact caccctgta cacatacagg attgaactc agatctgtc gataggatg tgaagcacg gactctact gctaacttt ttgtatcgt accagccaga tctcttggt tattgttta ccaattgtat tattaatgcc attactctga attcccctg cccccacc ctccctggc ttgtgctgag gggcctcca tctcatgat catctggata ggagcctgct ggtcacagc tctctgtc gcccttcacc ccagtgcca ctgagcttc taccacacc tctgccaga gatccctca ggactgcaac aggctgtgc acaataaat gttggcttgg a	
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	NM_003382	CGGACGAGG GGGCGGCCC CGCGCTCGG CGCGCTCGG GCGCTCGG GCGCGAGGT A cttcgcgca ctcgtcccg ccatgctgg agcgcgcgga acccgggga cctaggacgg aggcgcggg gctggggcg ccccgccac gctgagctcg gtagcgagc gctgctgct cccgcgctc tgactgctg gctgctgcc cccgtgaaca gattcaccc agaagcgga tttcatctgg aaatacagga ggaagaaaca aaatgacag agctctgag gctcaaaa gaaaaacaca agcctgcag ttggctctgg gacaacatca cgtgctggcg gctgccaat gtgggagaga ccgtcacggt gccctgcca aaagtctca gcaatttta cagcaaaaga ggaacacaa gcaaaactg tacgagtac gtaggtcag agacgtccc agatttcgtc gatgcctgt gctaacaga cccggaggat gagagaaga tcaqgttta tattctgtg aaggccatt ataccctgg ctacagtgc tctctgatg ctctgcaac aggaagcata attctgtgc tcttcaggaa gctgcactgc accaggaatt acatccact gaactgttc ctgtcctca tcttgagagc catctcaagt ctggtcaagg acgacgttct ctactccag	Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggcagct tgcactgccc tgaccagcca tctctctggg tgggtgcaaa gctgagcctg gtcttctgc agtactgcat catggccaac ttcttctggc tgctgtgga ggggtcttac ctccacacc tctgtgtggc catgctcccc cctagaaggt gcttctctggc ctacctctg atcgatggg gctctccac cgtctgcat ggtgcatgga cctgggcca gctctacta gaagacacc gttgtctgga taaaaagac cacagtgtgc cctgtgtggg catacgaata cagattttaa ttctcatcat cgtcaatttt cctcttttca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagaggctg gccaagtcca cgtctctgct tctccgctg ttggcgctcc actacatggt gttgcccgtg tttccatca gcatctctc caataccag atactgtttg agctgtgct cgggtcgttc caggcctgg tgggtggcct cctctactgt ttctgaaca gtgaggtgca gtgcgagctg aagcgaaaat ggcaagccg gtgcccagcc cgtcccgga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcggag ggccctctgc agttccacc cgcgtcccca gccagtcct tctgcacaa ggagacctg gtcatctagc cccaccttg cctgtcggac gcgcggggag gccacgggt cggggcttct cgggggctga gacgcgggt tctctctcc agatgcccga gcacgtgtc gggcaggtca gcgcggtct gactccgtca agtgggtgtg ccactaaacc ccatacctg</p> <p>MRLLPPALL TCWLLAPVNS CWRPANVGET VTVPCKVFS TFYILVKAY TLGYSVLMS DVLYSSGTL HCPDQSSWV FLAYLIGWG LPTVCIGAWT SIIRILLQKL TSPDVGNDDQ LCLSFQGLV VAVLYCFLNS FHRASRAQSF LQTETSVI</p>	Homo sapiens
472	160055 Motilin Receptor (GPR38)	NM_001507	<p>atggggagcc cctggaacgg cagcgacggc cccgaggggg cgcgggagcc gccgtggccc A gcgctgcgc cttgcgacga gcgcgctgc tcgccccttc ccttgggggc gctgggtgccc gtgaccgctg tgtgctgtg cctgttcgtc gtgcgggtga gcggcaacgt ggtgaccgtg atgctgatcg ggcgctaccg ggacatcgg accaccacca acttgtaact ggcagacatg gccgtgtccg acctactcat cctgctcgg ctgccgttcg acctgtaccg cctctggcgc tcgcggccct ggggtgttcgg gccgtgtc tcgcgctgt cctctacgt gggcgagggc tgacactag ccacgtgtt gcacatgacc gcgctcagcg tcgagcgcta cctggccatc tgccgcccgc tccgcgccc cgtcttggtc acccgggcc gcgtccgccc gctcatcgct gtgctctggg ccgtggcgct gctctctgc ggtccccttc tgttctctgt gggcgctcag caggacccc gcattctcgt agtcccggc ctcaatggca ccgcgggat cgcctctctg cctctcgct cgtcgcccgc tctctggct tcgcggggc caccgcccgc cccgcccgtc ggcccgcaga ccgcgaggc gcgcgctg ttcagccgc aatgccgc gagccccgc cagctggggc cgtgctgtgt catgctgtgg gtacacacg cctactctt cctgcccctt ctgtgctca gcatctcta cgggtctatc gggcgaggc tgtggagcag ccggcgggccg ctgcgaggcc cggccgcctc gggcggggag agagggcacc ggagaccgt ccgcgtcctg ctggtgtgtg ttctggcatt tataattgc tgggtgcct tcacgcttg cagaatcatt tacataaaca cggaagattc gcggtatgat tacttctctc agtactttaa catcgtcgtc</p>	Homo sapiens

473	160055	Motilin Receptor (GPR38)	NP_001498.1	ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct cattcaaaag aagtagagag cggcgccctt taaactgctg ctgcgaagga agtccaggcc gagaggcttc cacagaagca gggacactgc gggggaagtt gcaggggaca ctggaggaga cacggtgggc tacaccgaga caagcgctaa cgtgaagacg atgggataa MLIGRYRDMR TTTNNLYGSM AVSDLLILG LPFDLYRLWR SRPWVFGPLL CRLSLYVGE CTYATLLHMT ALSVERILAI CRPLRARVLV TRRRVRALIA VLWAVALLSA GPFLFLVGE QDPGISVVP G LINGTARIASS PLASSPPLWL SRAPPSPPS GPETAEEAAL FSRECRPSPA QLGALRVLML VTTAYFFLFF LCLSLYGLI GRELWSSRRP LRGPAASGRE RGHRTVRLV LVVLAFLIC WLPFHVGRII YINTEDSRM YFSQYFNIVA LQFLYLSASI NPILYNLISK KYRAAFAFKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG atggacctgc ccccgacgt ctccttcgac ctcctatgag cgcgctttgc gctgggcttc A cgcctcaacg tccctggccat ccgaggcgcg acggcccaag cccggctcgg tctcaccct agcctgggtc acgcccagaa cctgggctgc tccgacctgc tgcgacagt ctctctgcc ctgaaggcgg tggaggcgct agcctccggg ccctggcctc tgccggcctc gctgtgcccc gtcttcggcg tggcccaact ctcccaactc tatgcggcg ggggcttctc ggcggccctg agtgaaggcc gctacctggg agcagccttc cccctgggct accaagcctt ccggaggcgg tgctattcct ggggggtgtg cgcggccatc tgggcccccg tccctgtgca cctgggtctg gtctttgggt tggaggctcc aggaggtcgg ctggaccaca gcaacacctc cctgggcatc aacacacccg tcaacggctc tccggctcgc ctggaggcct gggaccggcg ctctgcccgg cggcccgcct tcagcctcct tctcctgctc ttttttctgc ccttgcccat cacagccttc tgctacgtgg cctgcctcgg ggcactggcc cgtccggcg tgacgcacag cgggaagctg cgggcgcctt ggggtggcgg cggggccctc ctacacgtgc tgctctgctg aggaccctac aacgcctcca acgtggccag ctctcctgac cccaatctag gagctcctg cgggaagctg gggctcatca cgggtgcctg gagtgtgtg cttaatccgc tggtagccgg ttacttggga aggggtcctg gcctgaagac agtgtgtgcg gcaagaacgc aagggggcaa gtcccagaag taa	Homo sapiens
474	160059	G Protein- coupled Receptor GPR40	NM_005303	atggacctgc ccccgacgt ctccttcgac ctcctatgag cgcgctttgc gctgggcttc A cgcctcaacg tccctggccat ccgaggcgcg acggcccaag cccggctcgg tctcaccct agcctgggtc acgcccagaa cctgggctgc tccgacctgc tgcgacagt ctctctgcc ctgaaggcgg tggaggcgct agcctccggg ccctggcctc tgccggcctc gctgtgcccc gtcttcggcg tggcccaact ctcccaactc tatgcggcg ggggcttctc ggcggccctg agtgaaggcc gctacctggg agcagccttc cccctgggct accaagcctt ccggaggcgg tgctattcct ggggggtgtg cgcggccatc tgggcccccg tccctgtgca cctgggtctg gtctttgggt tggaggctcc aggaggtcgg ctggaccaca gcaacacctc cctgggcatc aacacacccg tcaacggctc tccggctcgc ctggaggcct gggaccggcg ctctgcccgg cggcccgcct tcagcctcct tctcctgctc ttttttctgc ccttgcccat cacagccttc tgctacgtgg cctgcctcgg ggcactggcc cgtccggcg tgacgcacag cgggaagctg cgggcgcctt ggggtggcgg cggggccctc ctacacgtgc tgctctgctg aggaccctac aacgcctcca acgtggccag ctctcctgac cccaatctag gagctcctg cgggaagctg gggctcatca cgggtgcctg gagtgtgtg cttaatccgc tggtagccgg ttacttggga aggggtcctg gcctgaagac agtgtgtgcg gcaagaacgc aagggggcaa gtcccagaag taa	Homo sapiens
475	160059	G Protein- coupled Receptor GPR40	NP_005294.1	MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRTP SILVYALNIGC SDLLLTVSLP P LKAVEALASG AWPLPASLCP VFVAHFFPL YAGGGFLAAL SAGRYLGAFF PLGYQAFRRP CYSWGVCAAI WALVLCGLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLLL FFLPLAITAF CYVGCLRALA RSLGTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFY PNLGGSWRKL GLITAWSV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK atgcacacccg tggctacgtc cggaccacaac cgtcctctgg gggcaccggc caacgcctcc A ggctgcccgg cgtgtggcgc caacgcctcg gacggcccag tcccttcgac gcgggcccgtg gacgctggc tctgtccgct ctcttcgctg cgtctgagtc tgcctggcct ggtggggaac tcgctgtgca tctacgtcat ctgcccaccac aagccgatgc ggaccgtgac caacttctac atcgccaacc tggcgggccac ggacgtgacc tctcctcctg cgtcgtcctc cttcacggcc ctgctgtacc cgtgcccggg ctgggtgctg ggcgacttca tgtgcaagtt cgtcaactac atccagcagg tctcgggtga ggcacagtgt gccactctga ccgccatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgcc ctgcaccgcc gcacgcccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct gtaggctgtg ctgcccgggt cgtcggcctg	Homo sapiens
476	160189	G Protein- Coupled Receptor GPR54	NM_032551	atgcacacccg tggctacgtc cggaccacaac cgtcctctgg gggcaccggc caacgcctcc A ggctgcccgg cgtgtggcgc caacgcctcg gacggcccag tcccttcgac gcgggcccgtg gacgctggc tctgtccgct ctcttcgctg cgtctgagtc tgcctggcct ggtggggaac tcgctgtgca tctacgtcat ctgcccaccac aagccgatgc ggaccgtgac caacttctac atcgccaacc tggcgggccac ggacgtgacc tctcctcctg cgtcgtcctc cttcacggcc ctgctgtacc cgtgcccggg ctgggtgctg ggcgacttca tgtgcaagtt cgtcaactac atccagcagg tctcgggtga ggcacagtgt gccactctga ccgccatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgcc ctgcaccgcc gcacgcccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct gtaggctgtg ctgcccgggt cgtcggcctg	Homo sapiens

477	160189 G Protein- Coupled Receptor GPR54	NP_115940.1	<p>cacgcctgt caccgggccc gcgcgcctac tgcaagtgg ccttccccag ccgcggcctg</p> <p>gagcggcct tcgcaactgta caacctgtg gcgctgtacc tgctgcctgct gctcgccacc</p> <p>tgccctgct atgcggcccat gctgcgccac ctgggccggg tcgcccgtgcg ccccgccccc</p> <p>gccgatagc cctgcgagg gcaggtgctg gcagagcgcg caggcgccgt gcgggccaag</p> <p>gtctgcggc tgggtgcctg cgtggtcctg ctcttcggc cctgctggg ccccatccag</p> <p>ctgttcctg tgctgcagg gcggggccc gcgggctctt ggcacccacg cagctacgcc</p> <p>gcctacgcg ttaagacctg ggtcacctg atgtcctaca gcaactccg cgtgaacccc</p> <p>ctgctctag ccttcctggg ctgcacttc cgacaggcct tccgcgcgt ctgcccctgc</p> <p>gcgcggcc gcccccgcg cccccgcg cccggacct cggaccccg agccccacac</p> <p>gcgagctgc accgctggg gtccacccc gccccgcca gggcgagaa gccaggggagc</p> <p>agtgggctgg ccgcgcggg gctgtgcgc ctgggggagg acaacgcccc tctctga</p> <p>MHTVATSGEN ASWGAPANAS GCPGCGANAS DGFPVSPRAV DAWLVPLFFA ALMLLGLVGN P</p> <p>SLVIYVICRH KPMRTVTNFI IANLAATDVT FLCCVPFTA LLYPLPGWVL GDFMCKFVNY</p> <p>IQQVSVQATC ATLTAHSVDR WYTVTFPLRA LHRRTPLAL AVSLSIWVGS AAVSAPVLAL</p> <p>HRLSPPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP</p> <p>ADSALQGQVL AERAGAVRAK VSRLVAUVL LFAACWGP IQ LFLVLQALGP AGSWHPRSYA</p> <p>AYALKTWIHC MSYSNSALNP LLYAFLGSHF RQAFRRVPCP APRRRRRRR PGPSPDPAAPH</p> <p>AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p>	Homo sapiens
478	160202 Adrenomedull in Receptor (ADMR)	LG6564	<p>CCGGCGCCAC GTGCCTGTG CTGCGCGCCT ACGTGACGG GCATTGTCTAT GCACTGGCTG A</p> <p>ACCTATCATG AGACCTGTCT GCTGCTACA CTGTATGGAA CCCACATCTG CCTACACTGC</p> <p>CACCTGTAT CAACCTGTCT ACTTCTCTA TGATGTCTG TGAATGTCTG TACATGCTAG</p> <p>ACTGCGCTAT TCACCGGATC CTGACAACT TTATCAGCCA GACTGCCGG GCGGGCTGCG</p> <p>ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGGGGG GCACATGCG CTCCTCTTCC</p> <p>TTCTGTGACA CCCAGCGTA CATAATCAT ACCACGGTG ATAGCCAGAC TGCTGCGAGC</p> <p>AACCGGCCAC CTGCAGCCA AGCTGAGCT TTCAGGCACA CCATTGCTC GCAAAGACTT</p> <p>GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p>	Homo sapiens
479	160202 Adrenomedull in Receptor (ADMR)	NM_007264	<p>cagcctctc acagctccc atagcctgga cctgcggcc ctccctccag gaccgaggg A</p> <p>ctcccaagg aaactcagg gtgtgctggt cccaatgta gtgaaccca gctgggggccc</p> <p>tgccccctcg gagggggtca ccgagtgcc taccagtgac cttggagaga tccacaactg</p> <p>gaccgagctg cttgacctc tcaaccacac tttgtctgag tgccacgtgg agctcagcca</p> <p>gagcaccag cgcgtgctc tctttgccc ctacctggc atgtttgtgg ttgggctggt</p> <p>ggagaacctc ctggtgat atgcctcaact gcgcggctca ggcggggcag ggctgatgaa</p> <p>cctctacatc ctcaacatgg ccatcgcgga cctgggcatt gtctgtctc tgcccgtgtg</p> <p>gatgctggag gtcacgtgg actacacctg gctctgggg agcttctct gccgcttcac</p> <p>tcactacttc tactttgtca acatgtatg cagcatcttc ttcttggtgt gcttcagagt</p> <p>cgaccgctat gtacacctca ccagcgctc cccctcctgg cagcgttacc agcaccgagt</p> <p>gcggcgggcc atgtgtgcag gcatctgggt cctctcgcc atcatccgc tgccctgaggt</p> <p>ggtccacatc cagctggtgg agggccctga gcccatgtgc ctcttcattg caccttttga</p> <p>aacgtacagc acctggggcc tggcggtggc cctgtccacc accatcctgg gcttctctgt</p> <p>gcccttccct ctcatcacag tcttcaatgt gctgacagcc tgccggctgc ggcagccagg</p> <p>acaacccaag agcggcgcc actgcttgt gctgtgcgc tactgtggcc tctttgtcat</p>	Homo sapiens

480	160202 Adrenomedull NP_009195.1 in Receptor (ADMR)	MSVKPSWGGP PSEGVTAVPT SDLGEIHNWT ELLDLFNHTL SECHVELSQS TKRWLVLFALY P LAMEVVGLVE NLLVICVNR GSGRAGLMMNL YILNMAIADL GIVLSLPVWM LEVTDYTWL WGSFSCRETH YFYFVNMYSS IFFLVCLSDV RYVTLTSASP SWQRYQHRVR RAMCAGIWWL SAIIPLEVV HIQLVEGPEP MCLFMAPFET YSTWALAVAL STTILGFLLP FPLITVFNVL TACRLRQPGQ PKRRHCLLL CAYVAVFVMC WLPYHVTLLL ITLHGTHISL HCHLVHLLYF FYDVIDCFSM LHCVINPILY NFSLPHFRGR LLNAVHYLP KDQTKAGTCA SSSSCSTQHS IIITKGDSP AAAAPHPEPS LSFQAHLLP NTSPISPTQP LTPS	Homo sapiens
481	160204 G Protein-Coupled Receptor RTA AX136399	atgcggggttc tgcttccaaa gccatctctt ccagcaggag agggctctac tctgagctcc A tattttccaa ggctccgggc cgcgctcggc gctggcctgc tgcccggcg ggctccggcg ccggaggcgg gagtacacagg aagagccctc caaaaaagg ggcctcggcg gatcaggaca gctgcaggtg ggtgtgcaga ctggtgagct gccagcagg gccagagcgc gccaggcctg gagatggctg gaaactgctc ctgggaggcc catccggcca acaggaaacag gatgtgccct ggcctgagcg agggcccgga actctacagc cggggcttcc tgaccatcga gcagatcgcg atgctgcgcg ctccggcct catgaactac atcttctcct tctctgctt gctgtggcctg gtgggcaacg ggctggctct ctggtttttc ggcttctcca tcaagaggaa ccccttctcc atctacttcc tgacactggc cagcgccgat gtgggctacc tcttcagcaa ggcgggtgttc tccatcctga acacgggggg ctctctgggc acgtttggcg actacatccg cagcgtgtgc cgggtcctgg gctctgcat gtctcttacc ggcgtgagcc tctgcggcg cgtcagcgcc gagcgtgcg cctcggtcat ctctcccgcc gctgtgggtc ctgtccctcc tggtaacctg caagcgctg tcggccgtgg tgtgcacct gctgtgggtc ctgtccctcc tggtaacctg cctgcacac tacttctcg tgttctggg ccgcggggcc ccggcgcggtc tggtaacctg cctgcacac ttcctgggca tctcctgtt cctgctctgc tgcccgtcca tgggtgctgc ctgcctggcc ctcatcctgc acgtggagt cggggcccg cggcgccagc gctctgcaa gctcaaccac gtcatcctgg ccattggtc cgtcttctg gtgtctcca tctacttag gatcgactgg ttcctcttct ggtcttcca gatcccgcc ccttccccc agtacgtcac tgacctgtc atctgcatca acagcagcg caagcccatc gtctacttcc tggccggag ggacaagtgc cagcggctgt gggagcgcct cagggtgttc tccagcggg cctgcggga cggcgctgag ctgggggagg ccgggggag cagcccaac acagtacca tggagatgca gtgtccccc gggaacgct cctgagactc cagcgcctgg aggagggcagg gccaggaaag ggcctccaa accttcgcc ttgggacagg aatgggacc tgttcttag tccatacagg agaagaaga tctgttctct ctctcggc ctcttctcc ctgggtggg gactccagg gtggctggga gactgggag ccaccagcaa acagacctgt ggcctccccc accattctg ctccctaga gacctctgt acagaagtgt ccccgaggtg gtggggcccc tcttgcct aggctggttg gtaaaagaga ggaggtcaac accagccta gccacctctg cctcttgggt	Homo sapiens

482	160204	G Protein-Coupled Receptor RTA	CAC39840.1	<p> cagccctctc tgactgtgtc ccagccagca ccagccagc agcctcatcc ctgccattca gggtgttcc agagattcga tcctcttaag gcattatcag tgagcaaatg tgaaggaaat gggtcttga agaaagtctt gggtcacatg ccttgtagct aagctcttct gcaaaacaac tcccttcccc ccgtcgagtc atttggtgac tttgatgggg ggatttctgg ttatgtcaag gctctggaga caggaagggc ctttgccgcg cttgggtagt tgacctgctt tttctgactc cgggacgagc cagtcctagg ctgctccgg gagcctcga ggtatccgc aggccatgag gacctactgg gcagctcctg gcagcctct tggtccagc ccccaaccga aagtggacac tggtccgccc ctggccacct gggtactggc actgtgtgac acagtggccc aatgtggcca acggaagttt tataaagac aaaaagtata tcaataaaca tttataact tgc MAGNCSWEAH PGNRNMCPG LSEAPELYSR GFLTIEQIAM LPPPAVMNYI FLLCLCLGLV P GNGLVWFFG FSIKRNPSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVWCALLWVL SLLVTCLHNY FCVFLGRGAP GAACRHMDF LGILLFLCC PLMLVPLAL ILHVECRARR QRSAKLNHV ILAMVSVELV SSIYLGIDWF LFVWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RLWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEMQCPCG NAS </p>	Homo sapiens
483	160206	G Protein-Coupled Receptor GPR32	NM_001506	<p> atgaatgggg tctcggaggg gaccagaggc tgcaagtaca ggcaacctgg ggtcctgaca A cgtgategct cttgttccag gaagatgaac tcttcggat gcctgtctga ggaggtgggg tccctccgcc cactgactgt ggttatectg tctgcgtcca ttgctgctgg agtgcctggc aatgggctgg tgctgtggat gactgtcttc cgtatggcac gcacggcttc caccgtctgc ttctccacc tggcccttgc gatttccatg ctctcactgt ctctgcccc tgccatgtac tatattgtct ccaggcagtg gctcctcgga gagtgggctt gcaaaactcta catcaccttt gtgttctcca gctactttgc cagtaactgc ctctctgtct tcatctctgt ggacctgtgc atctctgtcc tctacccctg ctgggcccctg aaccaccgca ctgtgcagcg ggcgagctgg ctggcctttg ggggtgtgct cctggccgccc gccttctgct ctgcgcacct gaaattccgg acaaccagaa aatggaatgg ctgtacgcac tgctacttgg cgttcaactc tgacaatgag actgcccaga ttgggattga aggggtcgtg gagggacaca ttatagggac cattggccac ttcctgctgg gcttccctgg gcccttagca atcataggca cctgcgccc cctcatccgg gccaagctct tgccggagggg ctgggtccat gccaaaccggc ccaagaggct gctgctggtg ctggtgagcg ctttctttat ctctgtgccc ccgtttaacg tgggtgctgt ggtccatctg tgccgacggg tgatgctcaa ggaatctac caccgccgga tgctgctcat cctccaggct agctttgcct tgggctgtgt caacagcagc ctcaaccctt tccctacgt ctctgttggc agagatttcc aagaaaagt ttctccagtct ttgacttctg ccttggcgag ggcgttttga gaggaggagt ttctgtcatc ctgtcccccgt ggcaacgccc cccgggaatg a MNGVSEGTG CSDRQPGVLT RDRCSRKNM SSGCLSEEVG SLRPLTVVIL SASIVGVLG P NGLVMTVTF RMARTVSIVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGVV EGHIIIGTGH FLGLFLGFLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVLLVHL WRRVLMKEIY HPRMLLILOA SFALGCVNSS LNPFLYFVFG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagcctccct cctccacctc tgtctgcccg ctgcctcttg tctagctgct gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcgcc </p>	Homo sapiens
484	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	<p> gagagaggat ttctgtcatc ctgtcccccgt ggcaacgccc cccgggaatg a MNGVSEGTG CSDRQPGVLT RDRCSRKNM SSGCLSEEVG SLRPLTVVIL SASIVGVLG P NGLVMTVTF RMARTVSIVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGVV EGHIIIGTGH FLGLFLGFLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVLLVHL WRRVLMKEIY HPRMLLILOA SFALGCVNSS LNPFLYFVFG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagcctccct cctccacctc tgtctgcccg ctgcctcttg tctagctgct gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcgcc </p>	Homo sapiens
485	160210	G Protein-Coupled	NM_004778	<p> gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcgcc </p>	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgcccac atgagccgtc tccagagcca
cagcaaacac agcatccgt acatgacca cgcggccgtg ctgtgcacg ggtggccctc
gctgctgggc ctggtggaga atggagtcac cctcttcgtg gtgggtgcc gcatgcgcca
gaccgtggtc accacctggg tgcctgacac ggcgctgtcc gacctgttg cctctgcttc
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ctgcaaaactg cactcctcca tcttctttct caacatgtt gccagcggt tctgtctcag
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tggatgaat gtcagtggaa gaagcagatg agaaactctt gatctcttg tctgtgtt

486	160210 G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	<p>ttttgccac caaaggccag ggtcactgaa ggctggccc acagcagggtg ctgagcaaaag ggaacagtga ggtgccagc tagctgcaga gccacctgt gttgacacct cgcacctgct ccctccatc ccttccctt ttactcatag cacttcccc attggacacg tgggtgcattt tgcttgttta ttatgtttc tctccatcag aatgaaaagt cctcgagggc agggactttg gtctattgtc tgtattgcc ggtgcctagg attgtgcctg tatgcaacag gcaactcaata aatattttg ctgtagactg g</p> <p>MSANATLKPL CPILEQMSRL QSHSNTSIRY IDHAAVLHGH LASLLGLVEN GVILFVVGCR P MRQTVVTTWV LHLALSDLA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRG LQVVRPWAQ NHRTVAAHK VCLVLWALAV INTVPYFVFR DTISRLDGRI MCYNNVLLN PGPDRTATCN SRQAALAVSK FLAFLVPLA IIASSHAAVS LRLQHRGRRR PGREVRVAA VAAAFALCWG PYHVFSLEA RAHANPGLRP LWRGLPFVT SLAFENSVAN PVLVLTCPD MLRKLRSIR TVLESVLVDD SELGGAGSSR RRTSSTARS ASPLALCSRP EEPRGPALL GWLLGSCAAS PQTGPLNRAL SSTSS</p>	Homo sapiens
487	160212 G Protein-Coupled Receptor GPR52	NM_005684	<p>atgaatgaat ccagtgagc tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A ggtcccgagc gtcactcctg cccacttggg tttggccact acagtgtggt ggaatgctgc atcttcgaga cagtgttat tgtgttgctg acatttctga ttattgctgg gaactcaaca gttatctttg cctttcattg tgcctcactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggttc tactctgtca cttctccact actccacagg tgcacacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaagtggt ttctatggca tgtcttgctt gctacagtg ggaatcgttat cttgcaataa ccaagcctct ttctacaaat caacttgctc ccccttgctg cttgagaatt tgcatattt tgactctgat ctactcctgc ctacttttct tgccttccct ttttggctgg gggaacctg gtaccatgg tgacattttt gaatgggtg ccacgtcttg gctcaccagt gcctatttta ctggctttat tgtttgctta cttatgctc ctgctgcctt tgttgcctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tcttccagag agactggaca cagccctgac cgtgcctacg ccatgtttt gtttaggata accagtgtat ttatatgct tgggtcccc tatataattt actttctct agaaagctcc cgggtcttgg acaatccaac tctgtccttc ttaacaaact ggcttgcatg aagtaaatgt ttttgtaact gtgtaataa cagcctctcc aacggcgttt tccggctagg cctccgaaga ctgtttgaga caatgtgcac atcctgtatg tgtgtgaagg atcagggaagc acaagaacct aacactagga aacgggctaa tcttgcctcc attga</p>	Homo sapiens
488	160212 G Protein-Coupled Receptor GPR52	NP_005675.1	<p>MNESRWTEWR ILNMSSGIVN ASERHSCPLG FGHYSVDVVC IFETVIVILL TFLIAGNLT P VIFAFHCAPL LHYYTTSYFI QTMAYADLFV GVSLVPLTL ILHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDRY LAITKPLSYN QLVTPCRLRI LIILIWIYSC LIFLPFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAEVVC FTYFHIFKIC RQHTKEINDR RARFPSHEVD SSRETGHSPD RRYAMVLFRI TSVFYMLWLP YIIYFLLSS RVLDNPTLSE LTTWLAVSNS FCNCVIYSLN NGVFRGLRLR LFETMCTSCM CVKDQEAQEP KPRKRANSCS I</p>	Homo sapiens
489	160217 G Protein-Coupled	NM_005683	<p>atgagtcagc aaacaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcca catccccacc ttcgtcctgg gcctgctcct caacctgctg</p>	Homo sapiens

Receptor	Accession	Gene	Protein	Sequence	Species
GPR55	490	NP_005674.1	160217 G Protein-Coupled Receptor GPR55	gccatccatg gcttcaggac ctctcttaag aacaggtggc ccgattatgc tgcacacctcc atctacatga tcaacctggc agtctttgac ctgtctgtgg tgtctctctt cccattcaag atggtcctgt cccagggtaca gtcccccttc ccgtccctgt gcaacctggt ggagtgcctt tacttgctca gcatgtacgg aagcgtcttc accatctgct tcatcagcat ggaaccggttc ttggccatcc gttaccgctg acttggtgagc cactccggtc cccagggaag atctttggga ctgcatgca caatctgggt cctggtgtgg accggaagca tccctatcta cagtttccat gggaaagtgg aaaaatacat gtgcttcac aacatgtctg atgatacctg gagcgccaag gtcttcttc cgctggaggt gtttggtctt ctccttccca tgggcatcat gggcttctgc tgctccagga gcatccacat cctgctgggc cgccagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catcgagcc agcctggctg tattcgtggt ctcttcttc cagctccacc tggggtctct cctgcagttc ctgtgagaa acagctttat cgtagagtgc agagccaaag agagctcatc ctctctcttg caatgtgcca tgtgtttctc caatgtcaac tgctgcctgg atgtttctg ctactacttt gtcatcaaa aattccgcat gaacatcagg gccacccgc ctccaggtt ccagctggtc ctgcagaca caagatctc cggggctaa LFDGVNELMK TLQFAVHIPT FVLGLLNL AIHGFTFLK NRWPDYAATS P IYMINLAVED LLLVLSLPFK MVLQVQSPF PSLCTLVECL YFVSMYGSVF TICFISMDRE LAIRYPLLV HSGPPGRSLG SACTIWIWLV TGSIPYSFH GKVEKYMCFH NMSDDTWSAK VFPPLEVEGF LLPMGIMGFC CSRSIHILLG RRDTQDMVQ QKACIYSIAA SLAVFVVSFL PVLGFLELQF LVNRNFIIVEC RAKQSIISFFL QLSMCFSNVN CCLDFVCYIF VIKFRFMNIR AHRPSRVQLV LQDTTISR	Homo sapiens
	491	NM_005301	160219 G Protein-Coupled Receptor GPR35	atgaatggca cctacaacac ctgtggtctc agcgacctca cctggccccc agcgatcaag A ctgggcttct agcctactt gggcgctctg ctgtgtgtag gctgtgtgct caacagcctg gcgctctggg tgtctgtctg ccgcatgcag cagtgagcgg agaccgcgat ctacatgacc aacctggcgg tggccgacct ctgcctgtctg tgcaccttg cctctgtgct gcactccctg cgagacact cgagacgcc gctgtgccag ctctccagg gcatctacct gaccaacagg tacatgagca tcagcctggt cagggccatc gccgtggacc gctatgtggc cgtgcggcac ccgctgcgtg ccgcggggt gccgtccccc aggcagctg cgccgctgtg cgcggtcctc tgggtgctgg tcatcggtc ctgtgtggct cgctggctcc tggggattca ggaaggcggc ttctgcttca ggagcacccg gcacaattc aactccatgc ggttcccgct gctgggattc tacctgcccc tggcgtggtt ggtcttctgc tccctgaag tgggtgactgc cctggccccag aggccacca ccgacgtggg gcaggcagag gccaccgca agctgcccc catggtctgg gccaaacctc tgggttctgt ggtctgtctt ctgccccgc acgtggggct gacagtgcgc ctcgacgtgg gctggaacgc ctgtgccctc ctggagacga tccgtcgccg cctgtacata accagcaagc tctcagatgc caactgctgc ctggagacca tctgtacta ctacatggcc aaggagtcc aggagcgctc tgcactggcc gtggtctccc gtgctaaagg ccacaaaagc caggactctc tgtcgtgac cctcgccctaa SDLTWPPAIK LGFYAYLGVL LVLGLLNSL ALMWFCRRMQ QWTETRIYMT P NLAVADLCCL TLFPVLHSL RDTSDTFLCQ LSQGIYLTNR YMSISLVTAI AVDRYAVVRH PLRARGLRSP RQAAAVCAVL WVLVIGSLVA RWLLGTQEGG FCFRSTRHNF NSRFPPLGF YLPLAVVVFC SLKVATAAQ RPPTDVQAE ATRKAARMVW ANLIVFWCF LPLHVGLTVR LAVGWNACAL LETIRRALYI TSKLSDANCC LDAICYIMA KEFQASALA VAPRAKAHKS	Homo sapiens

493	160221 G Protein- Coupled Receptor GPR27	NM_018971	atggcgaaacg cgagcgagcc gggtggcagc ggcgggcgcg agggcgccgc cctgggcctc A aagctggcca cgtcagcct gctgctgtgc gtgagcctag cgggcaacgt gctgttcgcg ctgctgatcg tgcgggagcg cagcctgcac cgcgcctcgt actacctgct gctcgacctg tgcttgccg acgggctgcg cgcgtcgcc tgcctcccg cgtcatgct ggcggcgcg cgtgcggcg cgcggcgcg ggccgcgcg ggcgcgctg gctgcaagct gctcgcttc ctggccgcg tcttctgctt ccacgcgcg ttcctgctgc tggcgctggg cgtcacccgc tacctggcca tgcgcacca cgccttctat gcagagcgc tggcggctg gccgtgcgc gcatgctgg tgtgcgcgc ctgggcgctg gcgtggcgcg cggccttccc gccagtgtg gacggcggtg gcgacgacga ggacgcgcg tgcgcctgg agcagcgcc cgcggcgcc ccggcgcg cgggttctt gctgctgctg gccgtgctg tggcgccac gcacctgctc tacctccgc tgccttctt catccacgac cgcgcgaaga tgcggccgc gcgctgggtg ccgcgcgta gccacgactg gacctccac ggccggcg cgcgcggcca ggcggcgcc aactggacgg cgggtctgg ccgcggcc cgcgcctg cgttgttgg catccggcc gcggcgcg cgcggcgcg cgcgcctc ctgctgctgg aagaattcaa gacggagaag aggctgtga agatgttcta cgcgtcacg ctgcttccc tgcctcttg gggccctac gtcgtggcca gctacctgc ggtcctggtg cggccggcg ccgtcccca ggcctacctg acggcctcg tgtgctgac ctgcgcgag gccgcatca acccgtcgt gtgcttctc ttcaacagg agctgaggga ctgcttcagg gccagtcc cctgctgcca gagccccgc accaccagg cgaccatcc ctgcgacctg aaaggcattg gttatga CLADGLRALA CLPAVLAAR RAAAGAPP GALGCKLLAF LAALECFHAA FLLGVGVTR P YLAIAHREFY AERLAGWPCA AMLVCAAWAL ALAAFPFVL DGGDDDEAP CALEQRPDGA PGALGFLLL AVVGATHLV YLRLFFIHD RRMRPARLV PAVSHDWFH GPGATGQAAA NWTAGFGRGP TPVALVGIRP AGPRGARRL LVLEEFYTEK RLCKMFYAVT LLFLLWGPY VWASYLRVLV RPAVPQAYL TASVWLTFQA AGINPVVCFI FNRELDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
494	160221 G Protein- Coupled Receptor GPR27	NP_061844.1	MANASEPGGS GGEEAALGL KLATLSLLC VSLAGNVLFA LLIVERSLH RAPIYLLLDL P CLADGLRALA CLPAVLAAR RAAAGAPP GALGCKLLAF LAALECFHAA FLLGVGVTR YLAIAHREFY AERLAGWPCA AMLVCAAWAL ALAAFPFVL DGGDDDEAP CALEQRPDGA PGALGFLLL AVVGATHLV YLRLFFIHD RRMRPARLV PAVSHDWFH GPGATGQAAA NWTAGFGRGP TPVALVGIRP AGPRGARRL LVLEEFYTEK RLCKMFYAVT LLFLLWGPY VWASYLRVLV RPAVPQAYL TASVWLTFQA AGINPVVCFI FNRELDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
495	160222 G Protein- Coupled Receptor GPR72	NM_016540	atggtccctc accttctgct gctctgtctc ctcccttgg tgcgagccac cgcgccccac A gaggcccgcg ccgacgagca gagcgcggag gcggccctgg ccgtgccccaa tgcctcgcac ttcttctctt ggaacaacta cacttctcc gactggcaga actttgtgg caggaggcg tacggcgctg agtcccagaa cccacggtg aaagccctgc tcatgtggc ttactcctc atcattgtct tctactctt tggcaactc ctggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcac gtcaacctgg cagttgccga cataatgac acgctgtca acacccctt cactttggtt cgttttgtga acagcacat gatatttggg aagggcattg gccatgtcag ccgctttgc cagtactgt cactgcactg ctcgacactg acactgacag ccattggtt ggatgcccac caggtcatca tgcacctt gaaaccccg atctcaatca caaagggtt catctacat cgtgtcatc ggacctgg tacgttctt tcactccac atgctatctg ccagaaatta ttaccttca aatacagta ggacattgtg cgctccctt gcctgccaga cttccctgag ccagtgacc tctctggaa gtacctggac ttggccacct tcatctctg ctacatctg cccctcctca tcatctctg ggcctacgt	Homo sapiens

496	160222 G Protein- Coupled Receptor GPR72	NP_057624.1	<p>cgtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtac tttgcctgc ggcgcaaaaa gaagaagacc atcaagatgt tgatgctggt ggtagtccctc tttgcctct gctggttccc cctcaactgc tacgtctccc tctgtccag caaggtcatc cgaccaaca atgcccctta ctttgcctc cactggtttg ccatgagcag cacctgctat aacccctca tatactgtg gctgaacgag aactcagga ttgagctaaa ggcattactg agcatgtgtc aaagacctcc caagcctcag gaggacggcg accctcccc agttcccttc ttcagggttg cctggacaga gaagaatgat gcccagaggg cccccctgc caataacctc ctgccacct cccaaactcca gctgggaag acagacctgt catctgtgga accattgtg acgatgagtt agaagaggtt gggaagaggg agtgggaggg gtctgtctcc acctgaggca gggaagaga gcctattctc acacatgac ttacagatgc tggaaacaca ctctgcaga aggctgtagg actcttgaat tcctaggaaa ctgtccagcc tctagcccc atgtgatgtg aaaactaaaa ggcaccacca actagacatg tttcataaa ttcccatcta agaaacactg ggaggcacag cagcctgtat ctctgaggaa gaggagcgag gacaacgttg gccagatgg gggtgaatc attcaactgc ctccatctgt gggcagctg ctgccttaca gcccttccca ctagactgag catcccgagg gagacctaaa tcatacttg ggtgtgtgga ccagatgca cagagctctg cttgaaacag gtacacggcg cagggaatg ccagcaa</p>	<p>YGAESQNPV KALLIVAYSF IIVESLFQNV LVCHVIFRQ RMHSATSLFI VNLAVIDIMI TLNTPFTLV RVNSTWIFG KGMCHVSREA QYCSLHVSAL FTKYSEDIV PADLFWKYLD ISITKGVII PLIIISVAYA RVAKKLWLCN MIGDYTEQY FALRRKKKT IKMLMLVVVL LATFILLIYL VLLLSKVI RTNNALYFAF HWFAMSSTCY NPFIYCWLNE NFRIELKALL FALCWFEPLNC YVLLLSKVI RTNNALYFAF HWFAMSSTCY NPFIYCWLNE NFRIELKALL SMCQRPPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANNL LPTSQLSGK TDLSSVEPIV TMS</p>	Homo sapiens
497	160223 G Protein- Coupled Receptor G2A	NM_013345	<p>ggagggggtg cgaggctagc cagcaggcg gggccctggg tcattttaaa ctctcagagt A gaacgtcttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaaatatgc caggaggaa ggtgagcaag ggacacgaca ctcaccggga taaacccaac agcgcagcg agcgtgtgg gaaaccggan cctgacac cgccggggga agtgggccn cgccaccac cgtggaaga cagcgggan gcaaccacg agatgagacg gaactgccgt gagatccag aatnccnact gtgggtctga cccaggatan cggaagcag ggaactgaac agccctctc atgttcttga caccgtcatt ctacagcagt cagctaaggc acagaggcag ccgagcgtc gtcagcagag tctgtgtga gcagaacacg ccacacgcca cagccacac gccacacgtg caggattgct caagatgaa gggcacagt gaatatatat atatatatt attttggcg agaccctgga ggacacactg aatacaatgg aataccatcc cgccttgaa aggaaggga atctctggca acgtgcaac aggaggagc ttgaggacac tgtgtgagt ggagcacgtg agacacgaa ggacacacgc tgaagacag cagagatgcc caccacagt gggaggtgac agggagccc aggcacaga gacaaagtg aatggaggcc tgggggctgg gagcaaatgc ggagcagtg ctctctggg cagagtctcc gtttgggaag atgagaaggt tctgcccag gatgctggcg atggttgag aagaatgtga atgtgccccaa tgctactgaa aaacggttac aatggaaacg cccccagt gaccaccat gccccgtggg cctccctggg cctctccgc aagacctgca acaacgtgc ctctgaagag</p>	<p>YGAESQNPV KALLIVAYSF IIVESLFQNV LVCHVIFRQ RMHSATSLFI VNLAVIDIMI TLNTPFTLV RVNSTWIFG KGMCHVSREA QYCSLHVSAL FTKYSEDIV PADLFWKYLD ISITKGVII PLIIISVAYA RVAKKLWLCN MIGDYTEQY FALRRKKKT IKMLMLVVVL LATFILLIYL VLLLSKVI RTNNALYFAF HWFAMSSTCY NPFIYCWLNE NFRIELKALL SMCQRPPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANNL LPTSQLSGK TDLSSVEPIV TMS</p>	Homo sapiens

498	160223	G Protein- Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tcctgtgctg ggtgtacagc gcggtgtgca cgtgggggt gccggccaac tgcctgactg cgtggctggc gctgctgag gtactgcagg gcaactgtgt ggcgtctac ctgctctgcc tggcactctg cgagctgctg tacacaggca cgtgccact ctgggtcatc tatatccga accagcacg ctggacccta gctctgctg cctgcaaggt gaccgcctac atctctctt gcaacatcta cgtcagcatc cgttccctgt ctgcatctc ctgcgaccg ttcgtggccg tgggtacgc gctggagagt cggggcgcc gccgcggag gaccgccatc ctcatctccg cctgcatctt catcctctgc gggatcgtt actaccgggt gtccagagc gaagacaagg agacctgctt tgacatgctg cagatggaca gcaggattgc cgggtactac tacgccaagg tcacctgtgg ctttgccatc cctctctcca tcatgcctt caccaccac cggattttca ggagcatcaa gcagagcatg ggcttaagcg ctgcccagaa gccaagggtg aagcactcgg ccctgcgggt ggtgtgcatc ttcttagtct gcttcgccc gtaccacctg gtctctctcg taaaagccgc tgccttttcc tactacagag gagacaggaa cgccatgtgc ggcttgagg aaagctgtga cacagcctct gtggtgttct tgtgctgtc cacggtgaac ggcgtggctg acccattat ctacgtgctg gccacggacc attcccgcca agaagtgtcc agaatccata aggggtggaa agagtgttcc atgaagacag acgtcaccag gctcaccac agcagggaca ccgaggagct gcagtgcgc gtggcccttg cagaccacta caccttctcc aggccctgc accaccagg gtcaccatgc cctgcaaaaga ggctgattga ggagtcctgc tgagcccat gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt cctgtgcat gagccacca gccacagtgc ccattgtccc tctggaagac aaactaccaa ttctcgttc ctgaagccac tccctcgtg accactggcc ccangcttcc ccacatggaa gtggctgca tgccaagggt aagagcgaca cctccaggct tccgggagcc canagagcat gtggcangca gtggggcctc ttcatacaca nctggcctg ctggctccct tggctgtggg cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcac agtggcgatg actttattg cggagcattt ctgcaagcgt tgcctggatg cgggtgtgca ttgtgggccc tctgggctcc tgcctcaaaa tgtcagttag caccatgctg gaagtaccca tcaactgtgg agcggccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg ggtgggt</p>	Homo sapiens
499	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NM_004767	<p>CLTAWLALIQ VLQGNVLAVY LLCLALCELL YTGTLPLWVI YIRNQHRWTL GLLACKVTAY IFFCNIYVSI LFLCCISCDR FVAVYALES RRRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGY YARFTVGFAI PLSIIAFTNH RIFRSIKQSM GLSAAQKAKV KHSIAIVVVI FLVCFAPYHL VLLVKAASF YVRGDRNAM GLEERLYTAS VFVLCISTVN GVADPIIYVL ATDHSRQEVs RIHKGWKEWS MKTDVTRLTH SRDTEELQSP VALADHYTFS RPVHPGSPC PAKRLIEESC</p>	Homo sapiens

500	160224 Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	MRWLWPLAVS LAVILAVGLS PEEWAEPYRP IHPAGLQPTK YPVTESSYSA YAIMLLALVV FFCLPIVIFN EITKQRLGSD PIERCQSILA KLAVIIVGSM LVMTYQNARM WWYFGCYFCL VWGLTVVYAF CTLPENVCNI RPLGQAFLLDC CCCCCCECG	RVSGGAPLHL GRHRAETQEQ PLVATSPNPD KDGGTPDSGQ FVGVIGVGNLS VMCIVVHSY VSCRAVPFME VSSLGIDTFE TLAVPELLW QLAQEPAPTM PILFTVTCQL VTRVRGPPG VWAYLSTELT RQTLDDLGLI SDNKLKTEVS SSIYFHKPRE SPPLPLPLGTP	QSRSKRGTEDEEAKGVQYV ELRGNLTGAP QORLQIQNPL LKSANWSILA SLALWDFLVL LCALGIDREFH VATSTLPKVR GTLDDSCIMKP SASLPESLYS RKSECRASKH EQCESQLNST NQFSTFEKGA ITPVLLLCIC	Homo sapiens
501	160225 Sphingolipid Receptor Edg6	NM_003775	gagtcagccc ccgggggagg ccaacagctg gcggccggcg ccggtggccc ggccggcggg ggcgccgcc agtgccttgg ccacatcggg tcgcagcgt gtcacagggc gcggcctacc ggcgccgcc cagtggttcc cttcagcctg ctcttcaactg gagcggggcc accaagacca cgcgctgctg gggatgctgc ctccagcctt ctgcccctct	ccatgaacgc cagggggacc ggcacagccg gtcattgtt tggcgccctg ggcccccctg tggtgcttgg gaacttggg gggtcctacta ttgcttggg tggccaaagt ttgctgtgc tacgggaggg cctgctcttc caggggagcg ctttggcacc gccgcgtcta cggcttcata cttggctggg ctggaactgc actccaagcg ctacatctc	ccggtggccc ccgagtcctg ctgcactaca accactcggg ggggcccctg gggggctgtc tgcttgccgg ccataccagg aacatcacgc tgagtgaact ggggcccgcga ccttcctct accgccctgg ccgcccacc atggtgcggc cgggtggcga ggcctctgct ggcctctgct ctgtgcgcct ttgaccgctg ttctgcctgg tgatcttcgc	Homo sapiens

502	160225 Sphingolipid NP_003766.1	Receptor Edg6	<p>cggcgtcctg gccaccatca tgggcctcta tggggccatc ttccgcctgg tgcaggccag cgggcagaag gcccacgcc cagcgcccg cgcgaagcc cgcgcctgc tgaagacggt gctgatgc ctgctgctt tcttggtgtg ctggggccca ctcttcgggc tgcgtctggc cgacgtctt ggctccaacc tctgggccc ggaatcctg cggggcatgg actggatect ggccctggcc gtctcaact cggcggtcaa ccccatcatc tactcttcc gcagcaggga ggtgtgcaga gccgtgtca gcttctctg ctgcggtgt ctcggtgg gcacgcgag gccggggac tgcctggcc ggccgtcga ggtcactcg ggaactcca ccaccgacag ctctctgag ccaaggaca gcttctcgcg gctccgctcg ctacgcttcc gcatgcggga gccctgtcc agcatctca cgtgcggag catctgaagt tgcagtcttg cgtgtggatg gtcagccac cgggtgcgt caggcaggc cctcctggg tacaggaagc tgtgtgcacg cagcctgcc tgtatggga gcagggaac ggacaggccc ccatggtctt cccggtggcc tctcgggct tctgacgcca aatgggcttc ccatggtcac cctggacaag gaggtaacca cccacctcc ccgtaggagc agagagcacc ctggtgtggg ggcgagtgt tcccacaac ccgcttctg tgtgattctg gggaagtccc gcccctctc tggcctcag taggctccc aggctgcaag ggtggaactg tgggatgcat gccctggcaa cattgaagtt cgtcatggt aaaaa</p>	Homo sapiens
503	160228 T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p>atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccatttgtt A tacatcttgg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtcttct ctgcaaccca agaaggaaa tgaaactaga atttacctct tcagtttgtc actatcagat ttactctatg cattaactct cctttatgg attgattata ctggaaata agacaactgg acttctctc ctgccttgg caaaggaggt gctttctca tgtacatgaa gttttacagc agcacagcat tctcacctg cattgccgtt gatcggatt tggctgtgt ctaccctttg aagttttttt tcctaaggac aagaagaatt gcactcatgg tcagcctgtc catctggata ttggaacca tctcaatgc tgtcatgtt tgggaagatg aaacagtgt tgaatatgac gatgccgaaa agtctaatt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca actgtttcag gacgtgtaca ggtatgcaa tacctttgtt caccatcctg atctgtaacc ggaagtcta ccaagctgtg cggcacata aagccacgga aacaaggaa agaagagaa tcataaaact actgtcagc atcacagta ttttcttct atgttttact ccctttcatg tcatgttctg gattcgtgc atttagagc atgtgtgaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atgtataga tcacggttgc attaacaagt ttaaattgtg ttgtgatcc aattctgtac tgtttgtta cgaacacag aagatatgat atgtggaata tattaataat ctgcactggg aggtgtaata catcacaaag acaagaaaa cgcatacttt ctgtgtctac aaaagatact atggaattag aggtccttga gtag</p>	Homo sapiens

504	160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH LLYALTPLPW KFFFLRTRRI INLNLFRTCT PFHVMLLRIC MWNILKFCFG	DLDHLYLPPIV IDYTWNKDWN ALMVSLSIWI GYAIPLVITIL ILEHAVNFED RCNTSQQRK	YIFVIVISIP TFSPALCKGS LETIFNAVML ICNRKVYQAV HSNSGKRTYT RILSVSTKDT	ANIGSLCVSF AFLMYMKFYS WEDETVVEYC RHNKATENKE MYRITVALTS MELEVLE	LQPKKESELG STAFLTICIAV DAEKSNTFLC KKRIIKLLVS LNCVADPILY CEVTETGRYD	IYLFSLSLSD DRYLAVVYPL YDKYPLEKWQ ITVTFVLCTF CEVTETGRYD	Homo sapiens
505	160300	Encephalopsi n	NM_014322		cgagcccccgc ctcggggaac ggggccggcg gcgcctggcg gctcgctcct catcagccctc cctgaggaac cctcttcggg cgtggtccat gctctactca cgtacacgga tgtgcttttc tggccatatt agtgatcaag caccttccctg tggcacctcg tgtatacaat gcttctgtgc aagtgaatg aaaagtgact agttgacgac tttgtaggaa ctttcatcat aaccttggtg ttgaacaaaa tgcacacgat tatatttttt tactgtaaaa tttgtactgt taattctaga gtatgacaaa cagaggaatc gactcaaaag tgctatatata attcccca	cgcaagctga cgagcgggcg ccggcgggga ctgtctgtgg tactacaagt agcgacctgc ggctgggtgt attgtttcca gccagagtga ctggcggtgg ctaggctgca ttatttcttg ctatatcca attttaaat ctcgtgtgga gtcactccaa ccagtgtatt ctccgactgc cagatcagac ttcaactctt agcgacaaaa tgaaggatgg cctcctgaag tccagcagga acaaattctt gggcatctaa aaattactct ataactgtcg tggactctat atgaaaaaga gaggagtctt tacaaggcaa tctttttctt gccaggaggt tatatatata atatattac	gcccctcgc gccacggcta cactgagccc gtcccatggg tccagcggtc tgggtccctc gggacacctg tggccacctc tcaatttttc caggagcacc ctgtggactg ctgtgctgga ctgtctcttg ttcgaatgct atgaaaaga tgccttatat caatatctat atgtcttcct tgaggtgcca ccatttgtat cttccatcat ccattggggt caacgaaaag aagaagtgtc aatccgaatt ttaatccaac catcatcatc attttccaaa cgtaacacatg tcagtgtcat aaatcctctt agagacaact actcccatat tggtttgttg ttctctaaa tctaagacgc cagctctttg taataaattt	cgccaggcg ctgggacggc cgcccccctc gtctgtgggc cgcactccc cttcggggtc gggctgcgtg aacctgtctg ctgggcctgg tctcctggga gaaatccaag ggcgccccctg tcgtgtgtg tcgtgtgtg actggccaaa gatgctcttt tctgtctatg tcttgggtgg ctctttgcta tttcgaagat gatcagaaa tctcgaagat ccttgaatcc gaggcctgct gtcacagaaa tbtatcatc ccaaagtgtg tggaatccct gggtgcttta tctaatgtg gttgagattg catctttctc tgtagaacata tgatcaagtt gttggaaca gttgacacct gtcagcctgt atgttctcc ccccaaatgc aatttactgt agatttgctc atgtttgttt taaaaaaa	gggccatgta cgggcgctga gtcacctacga acctgtggt tccctggta acctttacct ttagcggcag gttatgaac ggtacatctg tggaacaggt acatcctgga atctctcctt cccattgcta taatgatatt ttaatgggtca aatcgaacac cccttttgca cagcagctgg aaacccacttg tcatttccaa caggaagagg aaacccacttg tgtagagatt gaaaaatcct ctgaattttt atcaaggaga tataatgtga agacacgttt agaccagcac tgccccata tctttgtcga attccccctgt taaaaaaa	Homo sapiens

[illegible]

510	160314	G Protein- Coupled Receptor GPR103	ENSMPT2217 53	<p>atcccggtca ccatgtctcca gaacatttcc gacaactggc tgggggggtgc tttcatttgc</p> <p>aagatgggtgc catttgtcca gtctaccgct gttgtgacag aaatcctcac tatgacctgc</p> <p>attgctgtgg aaaggcacca gggacttgtg catcttttta aaatgaagtg gcaatacacc</p> <p>aaccgaaggg ctttcacaat gctagtggtg gtcctggctgg tggcagtcac cgtaggatca</p> <p>cccatgtggc acgtgcaaca acttgagatc aaatatgctg tctatatga aaaggaaacac</p> <p>atctgctgct tagaagagtg gaccagccct gtgcaccaga agatctacac caccttcac</p> <p>ctgtcatcct ctctcctcg cctcttatgg aagaagaac gagctgtcat tatgatgggtg</p> <p>acagtgggtgg ctctctttgc tgtgtgtggg gcaccattcc atgtgtcca tatgatgatt</p> <p>gaatacagta attttgaaaa ggaatatgat gatgtcacaa tcaagatgat ttttgcctac</p> <p>gtgcaaatga ttggattttc caactccatc tgaattccca ttgtctatgc atttatgaat</p> <p>gaaaaactba aaaaaatgt tttgtctgca gtttgttatt gcatagtaaa taaaaccttc</p> <p>ttccagcac aaagcatgg aaattcagga attacaatga tgcggaagaa agcaaaagttt</p> <p>tcctccagag agaattccagt ggaggaaacc aaagagaag cattcagta tggcaacatt</p> <p>gaagtcaaat tgtgtgaaca gacagaggag aagaaaagc tcaaacgaca tcttgctctc</p> <p>tttaggtctg aactggctga gaattctcct ttgacagatg ggcattaa</p>	Homo sapiens
511	160317	Neuropeptide FF 2 Receptor	NM_004885	<p>tctggagcca agtaatgggtg atactgatgc ttccttttct ttgcccgcgt cggattctga A</p> <p>gtttcacaaag aatgtacctg ggtgccctt agcggatat gaatagcttc ttcggaaccc</p> <p>cagcggccag ctgggtgcctc ctggaaagtg acgtctcatc tgcaccggac aaggaggcgg</p> <p>ggagggagcg cagagcactc agcgtccagc agcggcgcg gccagcctgg agcggaagcc</p> <p>tggaagtggag caggcagtc cggggggaca gacgtcgctt ggaattgagc cggcagactg</p> <p>cgaaaagttag ctggagccgg agcagggaca gaacctgttg ctgcagacgg ccttgggtga</p> <p>ttctggttcc tgcgccgac agggctcgcc gggagaggtt catcatgaat gagaatggg</p> <p>acacaaactc ttcagaaaaa tggcatccca tctggaatgt caatgacaca aagcatcatc</p> <p>tgtactcaga tattaatatt acctatgtga actactatct tcaccagcct caagtggcag</p> <p>caatcttcat tatttcttac tttctgatct tctttttgtg catgatggga aatactgtgg</p> <p>tttgctttat tgtaatgagg acaaacata tgcacacagt cactaatctc ttcattctaa</p> <p>acctggccat aagtgaattta ctagtggca tattctgcct cactataaca ctgctggaca</p> <p>atattatagc aggatggcca ttggaaaca cgaatgcaa gatcagtga tgggtccagg</p> <p>gaatatctgt cgcagcttca gtctttacgt tagttgcaat tgcgtagat aggttccagt</p> <p>gtgtgggtcta cctttttaa ccaaagctca ctataagac agcgtttgtc attattatga</p> <p>tcactctgggt cctagccatc accattatgt ctccatctgc agtaagtta catgtgcaag</p> <p>aagaaaaata ttaccgagtg agactcaact cccagaataa aaccagtcca gtctactggt</p> <p>gccgggaaga gtgcccgaat caggaaatga ggaagatcta caccactgtg tgttttgcca</p> <p>acatctacct cgttccctc tccctcattg tcatcatgta tggaggattt ggaatttcac</p> <p>tcttcagggc tgcagttcct cacacaggca ggaagaacca ggagcagtg cacttgggtg</p> <p>ccaggaaaaa gcagaaagatc attaagatgc tctgtattgt ggccctgctt ttattctctt</p>	Homo sapiens

512	160317 Neuropeptide NP_004876.1 FF 2 Receptor	catggtgcc cctgtggact ctaatgatgc tctcagacta cgctgacctt tctccaaatg aactgcagat catcaacatc tacatctacc cttttgcaca ctggctggca ttcggcaaca gcagtgtcaa tccatcatt tatggtttct tcaacagagaa tttccgccgt ggtttccaa aagctttcca gctccagctc tgccaaaaaa gagcaaaagc tatggaagct tataccctaa aagctaaaag ccatgtgctc ataaacacat ctaatcagct tgcacagaa tctacattc aaaacctca tggggaacc ttgctttata ggaagaagtc tgaaaaacc caacaggaat tagtgatgga agaattaaaa gaaactacta acagcagtga gatttaaaaa gagctagtgt gataatccta actctactac gattatata tttaaatcca ttgctttttg tggctttgca cttcaaat tttcaagaat gttctaaata aaacatttac tgaagccct ctctggcaaa aaaattaaaa ataaacaaa atggtcataa gatcataaac aatcttatgt tgtataaaa tacgtagagt gacttagaca tgtttgcatg aataaatata tttctagaga acagttaaaa aaaaaaaaaaaa	Homo sapiens
513	160324 G Protein-Coupled Receptor GPR86/GPR94/ P2Y13	MNSFFGTPAA SWCLLESVVS SAPDKEAGRE RRALSVOQGR GPWSGSLEW SRQSAGDRRR P LGLSRQTAKS SWSRSDRTS CRRRAWWILV PAADRARRER FIMNEKWDTN SSENWHPIWN VNDTKHLHS DINITVYNY LHQPQVAIF IISYFLIFFL CMGNTVVCV IVMRNKHMHT VTNLFILNLA ISDLLVGIFC MPITLLDNII AGWPFNGTMC KISGLVQGIS VAASVFTLVA IADRFQCVV YPFKPLTIK TAFVIIMIY VLAITIMSPS AVMLHVQEEK YVRVLNSQN KTSPVWCRE DWPNOEMRKI YTTVLFIANY LAPLSLIVIM YGRIGISLFR AAVPHTGRKN QEQQHVVS RK QKIIKMLLI VALLFILSWL PLWTLMLSD YADLSPNELQ IINIYIYFPA HWLAFGNSSV NPITYGFENE NFRRGFQEAF QLQLCQKRAK PMEAYTLKAK SHVLINTSNQ LVQESTFQNP HGETLLYRKS AEKQQEELVM BELKETNNS EI aacagtattt tctttttcaa cacatctatt gaaagtgttg gataaatgca ggaatgtaat A atgctataaa cataaagtct gtttttaaaa aatagcatgt gaaaaatcatg aagggtcttt tgttttctt ttgttgtata tatgtttatt ggtaaacaggt gacactggaa gcaatgaaca ccacagtgat gcaaggcttc aacagatctg agcgggtgcc cagagacact cggatagtag agctggtatt ccagccctc tacacagtgg ttttcttgac cggcatcctg ctgaataactt tggctctgtg ggtgtttgtt cacatcccca gctcctccac cttcatcatc tacctcaaaa acactttggt ggcgacttg ataatgacac tcatgcttcc ttcaaaaatc ctctctgact cacacctggc acctggcag ctacagactt ttgtgtgtcg ttttcttctg gtgatatattt atgagaccat gtatgtgggc atcgtgctgt tagggctcat agcctttgac agattcctca agatcatcag accttgaga aatatttttc taaaaaaa tgtttttgca aaaacggctc caatcttcat ctggttcttt ttgttcttca tctccctgac aaatatgac ttgagcaaca aggaagcaac accatcgtct gtgaaaaagt gtgcttctt aaaggggcct ctgggggctga aatggcatca aatggtaaat aacatatgcc agttatttt ctggactgtt tttatccctaa tgttgtgtt ttatgtggtt attgcaaaa aagtataaga tttctataga aagtcctcaaa gtaaggacag aaaaaaac aaaaagctgg aaggcaagt atttgtgtc gtggctgtct tctttgtgtg ttttctcca tttcattttg ccagagtcc atatactac agtcaaacca acaataagac tgactgtaga ctgcaaaaatc acagtttat tgctaaagaa acaactctct ttttggcagc aactaacatt tgtatggatc ccttaataa catattctta tgaataaat tcacagaaaa gctaccatgt atgcaaggga gaaagaccac agcatcaagc caagaaaaatc atagcagtca gacagacaaac ataaccttag gctgacaact gtacataggg ttaactttcta	Homo sapiens

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p>tttattgatg agacttcctg agataatgtg gaatacaat ttaaccaaga aaaaaagatt ggaacaaatg ctctcttaca ttttattatc ctgggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccatta ctaagagaat gcaacaggat acaaatggcc actagaggtc attatttctt tcttctttt tttttttt aatttcaaga gcatttact ttaacattt ggaagact aggagaaac gtatatccct acaaacctcc cctccaaaaca ccttctcaca tctttttcca caatttactg cttttgtgccc ccttaaatgt agatatgtgc tgaagaaaa aaaaaagcc caactcttga agtccattgc tgaaaactgc agcagggtg tgaagggat gcagacttga agagtctgag gaactgaagt gggtcagcaa gacctctgaa atcctgggta aggattttc tcttacaat tacaacagc ctctttcaca ttacaataat ataccatagg aggcacaagc accattatta agccactttg cttacacctt aagtgtgtac aattcaagt tgaagatgct gtgttaacta tcttttgaa ttctccttct gtccagcaaa tactctaag atggttaaac atggcaccta ctccagcaatg ccttccctga ccacaacccc tatcccccgt cccacacctc ctcatataaa acaataactt ctactgtttg ggtgtgtgat aggtttctca atgcagatct cctttttcta gttagctata ttcttgactg catccgctaa aaatgtttaa gcttcttgag agacagacat gccagatttt cttggtatct cccataatc gacctacagt ccatggtcta cagatgtttt aaatagaatt gctattctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatattg ggagattttt caaaggatgg tgacctgct tgtatttatt taccttggtg ttttttctg catccttctg tgattcaaaa aagtaaaatg tggctttctg aaatgatgga taagagtcta catcttctag aaaaaataca taaaggagta gtaaatgtct gtaaatgtgc cagcagctcc aacacgacca tcgtagggtg aagccacagt tttcttccat ggcctcaaa gccctagaac ttgcctacct ttctggcctt acctcctagc tacttatacca tctcttgaac tttatactct tgtataaatt tctaaacttc agaaaatgcc atactctgt ttggcaccac acatgtatat ttccccctgg tacacttgga agactcttat ccatctgtga aacctatgt tgtcatcact tggctccatga aatattacct ggccaatc caccatcac ctcaaaccca atcaccccc cctctgtatg ctgtcacacc tatattatta aacttatcac attgcattgt aattacttcc tgacctttgt atctactct ttagtaactg atgtatatat ctgaaaggag agattgttct attgtgcaat caataaatgt ttgataaaat aaagccc</p>	Homo sapiens
515	160329	Proteinase- Activated Receptor 4	NM_003950	<p>LNKTLVADLI MTLMLPFKIL SDSHLAPWQL RAFVCRFSSV IFYETMYVGI VLLGLIAFDR FLKIIIRPLRN IFLKKPVFAK TVSIFIWFFL FFISLPNMIL SNKEATPSSV KKCASLKGPL GLKWHQMVNN ICQFIFWTFV ILMVIFYVVI AKKVYDSYRK SKSKDRKNNK KLEGVFVVV AVFFVCFAPF HFARVPYTHS QTNNKTDCLRL QNQLFIKET TLFLAATNIC MDPLIYIFLC KKFTEKLPCM QGRKTTASSQ ENHSSQTDNI TLG</p>	Homo sapiens

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516	160329	Proteinase- Activated Receptor 4	NP_003941.1	<p> tgggctggg gctgcattcc ctggagactc actgcaagtt cctgcccagg aggtgaggg caccatcc tcagtgcaca atgctgtggc ccaccaggc ccagagcctg gttggccatt ctcatgcca ccagcttctg gctttgggat gtctcttgag caaccagaat agcaccacca actctgtcc ccaaaacca tcaatagcac ggtcagcct cctgtatcc cctgactgct gggaccctc gccttccctc ctctcacctg caggctgac cttcttttca cttctctgca atgtcaccag ggataagtg ggacaatgg ggtgggggt ggacagtgtg tgctgggggg ttcgggtgct gcagacctgg aactcccttc tggcaggatg ttggcagcg gttgtaagcc ttgcacggga cagaccacac ccaccgcaac ccatccctcc cagcactaac cacatccact ctcaaccgg tccccttcgc actgaccaca cccaccctgt tggccccgc cccccgact gaacactcc gccctcaacc ccgaccctc cgcactcacc tccccctgc cgtcgcacc cgcctcacc aactgacca cctcaacc attgcgcca gtccccacca cagtaccac accctcactg gctcgccct gccccagta tactgacct tccccagcca cttcccttcc gcacttacc cccccagc cagccccct cccgtgacc ctcctccag ccccgctcc ccgtacagg cagagcctc gccacctct atgtcgtt ctcctgactt tacgttggtg cctcctctgc caagcccca gggagacct cctggcgtc cagagggtgg agtcgggggtg tggcagggcg cgtggggggg cggcagtgg tccgcgact caccgggccc cggggcaggg gcgcgtcca ctctgttga cgcgggtcc gcgcacagt cccgggagag tgggctgtgc gtgctgact ttagaagcg agtggcctc aggtctacgg gacaggggtg gcgggtgacc aagtgcagg cgcaggggtc agggaccgg cgggcccgg ggtgcggcg cgcgggacct ccgggtcgt agtagctga cagggagact ggcagcgcc agtctctgc caccacgac tccggagag caggaaccg cagcacgtc aggcacggc tggggtatctg tggggcagcg gcggcgag cctgacccg ggcagaggg cccggggcg tgagctcagg ccagaaactg gctgattca gggatacca ggcgcgtga aacacagaag aaactgtatc ccatcttctt ttttctttt actttctt tttttttt ttcctgagac agagtctgc gctgttgccc aggtggagt gcagtggct gatctggct cactgcaagc tggcctcct ggttcaaat gattcctcg cctcagcct ccaagtagct ggataacag gcgccacca ccgaccctg ctaattttt gtattttga tcaagacgga gtttaccat gttggccagg ctggtctcca actcctccc tcaagtatc cgcctcgtc ccattttta tttttgggt ccttccatcc cactgggaaa acgtctcagg tggcctctga aacaccact ctttttgggt gttgacagc atggctgagc atgtgtgggt gggagtcagc acattcaga tactgtgcaa tcatcacctc tgtctagta caggacggt tcttctccc ccaagaaac cccatcgcca tcagcactca ctccccact cccagcccc tggcaaccac aaactcttcc aactctacgg atttgcctgt tctgggcatt tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaaa aaaaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa LELPDSSRAL LLGWPTRLV PALYGLVLV STGGDDSTP SILPAPRGYP QQVCANDSDT P ADLLALALP PRIAYHLRG RWPFGAAR LATAALYGHM YGSVLLAAV SLDRLALVH PLRALRGR RLALGLCAA WLMAALALP ITLQRQTFL ARSDRLCHD ALPLDAQASH WQPAFTCLAL LGCFLPLLAM LLCYGATLHT LAASRRYGH ALRLTAVLA SAVAFFVPSN LLLLHYSDP SPSAWGNLYG AYVPSLALST LNSCVDFFIY YVSAEFRDK VRAGLFQFSP GDTVASKASA EGGSRGMGTH SLLQ </p>	Homo sapiens
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517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	Homo sapiens
		cggcagcagg gtctgcgtct gtccacacagg ctggagtgca gtgggtgtgat cttgggtcat A	
		cgtaacctcc acctcccggt ttcaagtgtat tctcatgctt cagcctcccg agtagctggg	
		attacaggtg gtgactttcca agatgactc gctcgaggga aaatgactcc ccagtcgctg	
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		gtccatgccc ctttccctgc agcccacctt gcttcccgat ccttccctga cccaggggc	
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		aagcgtgact tcttgctgag tgacaaagcc tctagcctcc tctgcttcca gcaccaggag	
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		cagaacatca gcccgcccag tgcgcgcag ttcacctttt ccttccacag tcttccccac	
		acggccgctc acaatgcctc ggtggacatg tgcgagctca aaaggagcct ccagctgctc	
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		ggtggccctt cccctctgaa gagcaactca gactgcgcca ggctccccc cagctcgggc	
		agcacctcgt ccagccgcat ctaggcctcc agcccacctg cccatgtgat gaagcagaga	
		tgccgctctg tcgcacactg cctgtggccc ccgagccagg cccagcccca ggccagtcag	
		ccgcagactt tggaaagccc aacgaccatg gagagatggg ccgttgccat ggtggacgga	
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518	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NP_005673.1	MT PQSLQQT LFLLSLFLV QGAHGRGHRE DFRFCSQRNQ THRSSLHYKP TPDLRISIEN P SEEALT VHAP FPAAHPASRS FPDPRGLYHF CLYWNRHAGR LHLLYGRDF LLSDKASSLL CFHQEESLA QGPPLATSV TSWSPQNIS LPSAASFTFS FHSPHTAAH NASVDMCELK RDLQLLSQFL KHPQKASRRP SAAPASQQLO SLESKLTSVR FMGDMVSFEE DRINATVWKL QPTAGLQDLH IHSRQEEES EIMEYSVLLP RTLFQRTKGR SGEAEKRLLL VDFSSQALFQ DNSSQVLGE KVLGIVVQNT KVANLTPVV LTFQHQLOPK NVTLCQVFWV EDPTLSSPGH WSSAGCEIVR RETQTSFCFN HLYTEAVLMV SSVEVDVHK HYLSSLSYVG CVVSALACLIV TIAAYLCSRV PLPCRKRPRD YTIKVHNNLL LAVFLDTSF LLSEPVALTG SEAGCRASAI FLHFSLLTCL SWMGLEGYNL YRLVVEVFGT YVPGYLLKLS AMGWGFPIFL VTLVALVDVD NYGPIILAVH RTEGVIYPS MCWIRDSLVS YITNLGLFSL VFLENMAMLA TMVVQILRLR PHTQKWSHVL TLLGLSLVLG LPWALIFFSF ASGTFQLVVL YLFSIITSFQ GLLIFIWYWS MRLQARGGPS PLKNSNDCAR LPISSGSTSS SRI	Homo sapiens
519	160387 Glucagon- Like Peptide 2 Receptor	NM_004246	atgaagctgg gatcgagcag ggcagggcct gggagaggaa gcgcgggact cctgcctggc A gtccacgagc tgcccactgg catccctgcc cctcggggga ccagctcctct ctccttccac aggaaagtgt ctctctgggc cctcgggagg cccttctcca ctctggtcct gctgggttcc atcaagcaag ttacaggatc cctccttgag gaaacgactc ggaagtgggc tcagtaacaa caggcatgtc tgagagactt actcaaggaa ccttctggca tattttgtaa cgggacattt gatacgtacg tgtgttgccc tcattcttct cctggaaatg tctctgtacc ctgccccttca tacttacctt ggtggagtga agagagctca ggaaggcctt acagacactg cttggctcag gggacttggc agacgataga gaacgccacg gatatttggc aggatgactc cgaatgctcc gagaaccaca gcttcaagca aaacgtggac cgttatgctt tgctgtcaac cttgcagctg atgtacacg tgggatactc ctctctctct atctcctctt ccttggtcctt caccctcctc ttgtttcttc gaaaactcca ctgcacgcgc aactacatcc acatgaactt gtttgcttct ttcatcctga gaaccttggc tgtactgttg aggacgtcg tcttctacaa ctcttactcc aagaggcctg acaatgagaa tgggtggatg tcttacctgt cagagatgtc cacctcctgc cgctcagtc aggttctctt gcattacttt gtgggtggca attacttatg gctgctggtt gaaggcctct acctccacac gctgtggag cccacgtgc ttcctgagag cggtgtgtgg cccagatacc tgctgttggg ttgggccttc cctgtgctat ttgtgtgacc ctgggtgttc gcccgtgcac acctggagaa cacagggtgc tggacaacaa atgggaataa gaaaatctgg tggatcatcc gaggacctat gatgctctgt gtaacagtca attcttctat ctctctgaaa attctcaagc ttctcatttc taagctcaaa gctcatcaaa tgtgcttcag agattataaa tacagattgg caaatcaac actggtcctc attcctttat tgggcgttca tgagatcctc ttctctttca tcaatgatga tcaagttgaa ggatttgcaa aacttatcag acttttcat cagttgacac tgaatcctt tcaatgggtc ctggtggcct tgcagtatgg ttttgccaat	Homo sapiens

520	160387 Glucagon- Like Peptide 2 Receptor	NP_004237.1	<p> ggagaagtga aggtgagct gcggaataac tgggtccgct tcttgtagc ccgccaactca ggctgcagag cctgtgctc tccggaagac tccggttcc taggaaatg tcccaagaag ctctcgaaag gagatggcg tgagaagctt cggaagtgc agccctact taacagtggg cggtccttac atctagccat gcgaggtctt ggggagctgg gcgcccagcc ccaacaggac catgcacgtt ggcgcgggg cagcagctg tccgagtgca gtgaggggga tgtcaccatg gccaaacca tggagggagat tctggaagag agtgagatct ag MKLGSSRAGP GRGSAGLPG VHELPMGIPA PWGTSPLSFH RKCSLWAPGR PFTLVLLVS P IKQVTGSILE ETTRKWAQYK QACLRDLIKE PSGIFCNGTF DQYVCWPHSS PGNVSVPCPS YLPWSESS GRAYRHCLAQ GTWQTENAT DIWQDSECS ENHSEKQNV DRYALLSTLQL MYTVGYFSLS ISLFALTLL LFLRKLHCTR NYIHMLFAS FILRTLAVLV KDVVFYNSYS KRPDNEGWM SYLSEMTSC RSVQVLLHYF VGANYLWLV EGLYLHLL PTVLPERRLW PRYLLGWAF PVLFVVPWF ARAHLENTGC WTTNGNKKIW WIIRGPMMLC VTWNFFIFLK ILKLLISKLK AHQCFRDYK YRLAKSTLVL IPLLGVHEIL FSFITTDDQVE GFAKLIRLFI QLTSSFHGF LVALQYGFAN GEVKAELRY WVRFLARHS GCRACVLGKD FRFLGKCPKK LSEGDGAELK RKLQPSLNSG RLLHLAMRGL GELGAQPQOD HARWPRGSSL SECSEGDVTM ANTMEEIIEE SEI </p>	Homo sapiens
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Homo sapiens

523	160390	Cadherin EGF NM_001408	LAG Seven- Pass G-Type Receptor 2 (CELSR2)	<p> NGVVKVVFEIL YNNLGLFLST ENATVKLAGE AGPGPGGAS LVNSQVIAA SINKESSRVE LMDPVITVA HLEDKNHENA NCSFWNYSER SMLGYWSTQG CRLVESNKTTH TTCACSHLTN FAVLMAHREI YQGRINELL SVITWVGIVT SLVCLAICIS TFCFLRGLQT DNTIHKNLCL INFLAELLF LVGIDKTQYE IACPIFAGLL HYFFLAASFV LCLEGVHLVL LLVEVFESEY SRTKYVYLG YCFPALVGI AAADYRSYG TEKACWLRVD NYFIWSFIGP VSFIVVNLV FLMTLHKMI RSSVLKPD SRLDNKISWA LGAIALLFL GLTWAFGLLF INKESVVMAY LFTTFNAFQG VFIFVHCAL QKKVHKEYSK LRHSYTHGSL KTSAMRSNTR YYTGTSRIR RMWNTVRKQ TESSFMAGDI NSTPTLNRT MGNNHLLTNPV LQPRGGTSPY NTLIAESVGF NPSSPPVENS PGSYREP KHP LGGREACGMD TLPLNGNFNN SYSLSRGDFP PGDGGPEPPR GRNLADAAAF EKMIISELVH NNLRGSSAA KGPPEPPV PPVPGGGGEE EAGPGGADR AEIELLYKAL EEPILLPRAQ SVLYQSDLE SECTAEDGA TSRPLSSPPG RDSLYASGAN LRDSPPSPDS SPEGPSEALP PPPAPPGP EIYYTSRPPA LVARNPLQGY YQVRRPSHEG YLAAPGLEGP GPDGDGMQL VTSL taggagccgg aggagggacc gccgcgcgg ttgacccgg cgcggcgg gagctgggag A agatgcggag ccgggccacc gggtccccc tcccaagcc gccgcgcgg ctgctgtgc tgttgctgt cctgctgcc cgcacctat tggagagacca agtggggccc tgctgttcc tgggtccag gggacgagc tcttcgggg cctgcgccc catgggctgg ctctgtccat cctcagctc gaacctctgg ctctacacca gccgctgag gtagcgggc actgagctga ctggccacc ggtacccacc cagatggc ttgaggtttg gtgtccagaa tccgagggcc atattccct accaccagct cctgaaggct gccctggag ctgtgcctc ctgggcatg gaggccact tccccacag ggcaagctca cactgcgca ggagcaccg tgcttaagg ctccacggct cagatgccag tctgtcaagc tggcaccgc ccccgggctc agggcaggg aaaggtcacc agaagagtc ctgggtggc tcgggaaag gaatgtaaat acagccccc agttccagcc cccagctac cagccacag tgcggagaa ccagcagca ggcacccctg ttgcatccct gagggccatc gaccggagc aggtgaggg aggtcagctg gtagtacca tggatgccct ctttgatagc cgtcccaacc agttcttct cctggaccca gtcactggtg cagtaaccac agccgaggag ctggtcgtg agaccaagc caccacgct ttcagggtca cggcgagga ccacggcatg ccccgacga gtgccctggc taccctacc atcttggtta ctgacacca tgaccatgac cctgtgttcg agcagcagga gtacaaggag agcctcaggg agaaccctga ggttggtctat gaggtgctc ctgtcagggc cagcatggt gatgcccc ccaatgccaa tattctgtac cgcctgctg aggggtctg gggcagccc tctgaagtct ttgagatga cctcgtctt ggggtgatc gaacctggc cctgtggtat cgggaagagg tggaaacct cagctgagc gttagaggca gtgaccagg tcgggaccc ggtcctcga gtaccacagc cgctgtttc cttctgttg aggatgacaa tgataatgcc cccagttta gtgagaagc ctatgtgtc caggtgagg agtatgtgac tccaggggc ccagtactcc ggtcacagc ctgggatcga gacaaggga gcaatggcgt tggcactat agcatcatga gtggcaatgc tcggggacag ttttatctg atgccagac ttgagctct gatgtggtga gccctctga ctatgagac accaaggag acacctacg ggtgcgagca caggatggtg gccgtcccc actctctaat gtctctggt tggtagagt acaggtcctg gatataacg acaatgcccc catctctcgc agcaccctt tccaggctac tgcctggag agcgtcccc taggctacct ggtctctccat gccaggcta tcgacgctga tgctggtgac aatgcccc </p>	Homo sapiens
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				<p>MRSPATGVPL PTPPPPLLL LLLLPPLL GDQVGPCRSL GSRGRSSGA CAPMGWLCPS P SASNLWLYTS RCRDAGTELT GHLVPHHDGL RWCPESEAH IPLPPAPEGC PWSRLLLGIG GHLSPQGLT LPEEHPCLKA PRLRCQSKL AQAPGLRAGE RSPEESLGR RKRNVNTAPQ FQPPSYQATV PENQAPGTPV ASLRAIDPDE GEAGRLEYTM DALFDSRSNQ FFLDPVTGA VTTAEELDRE TKSTHVRVT AQDHGMPRRS NANILYRLLE GSGGSPSEVF EIDPRSGVIR TRGPVDREEV NLEVGYEVLV VRATDGDAPP TTAAVFLSVE DDNDNAPQFS EKRYVQVRE DVTGPAPVLR ESYQLTVEAS DQGRDPGPRS GNARGQFYLD AQTGALDVVS PLDYETTKY TLRVRAQDGG VTASDRDKGS NAVVHYSIMS NAPIFVSTPF QATVLDVVS GYLVLHVQAI DADAGDNARL RPPLSNVSGV VVQVLDIND NAPIFVSTPF QATVLDVVS GYLVLHVQAI DADAGDNARL EYRLAGVGH DFPFTINNGTG WISVAEELDR EEDVFSYFVG EARDHGTAL TASASVSTV LDVNDNNPTF TQPEYTVRLN EDAAVGTSVV TVSAVDRDAH SVITYQITSG NTRNRESITS QSGGGLVSLA LPLDYKLEPQ YVLAVTASDG TRQDTAQIV NVTDANTHRP VFQSSHYTVN VNEDRPAGTT VVLISATDE TGENARITYE MEDSIPQFRI DADTGAVTQ AELDYEDQVS YTLAITARDN GIPQKSDTTY LEILVNDVND NAQFLRDSY QGSVYEDVPP FTSVLQISAT DRDSGLNGRV FYTFQGGDDG DGDFIVESTS GIVRTLRLD RENVAYVLR AYAVDKGMPP ARTPMEVTVT VLDVNDNPPV FEQDEFDFV EENSPIGLAV ARVTATDPDE GTNAQIMYQI</p>	

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aagtgacctt ttctttttt

SEQ ID NO:	SEQ ID	LSID	Gene	Source ID	LPID	Peptide	SpeciesName
692	127	127	5-HT1A Receptor	P08908	595	CAPASFERKNERNAEAKRKM	Homo sapiens
693	127	127	5-HT1A Receptor	P08908	608	GRIFRAARFRIRKTVKKVE	Homo sapiens
694	127	127	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	127	127	5-HT1A Receptor	P08908	612	RHGASAPAPQPKKSVNGE	Homo sapiens
696	128	128	5-HT1B Receptor	P28222	585	KQTPNRTGKRLTRAQLTID	Homo sapiens
697	128	128	5-HT1B Receptor	P28222	586	SPGSTSSVTSINSRVPD	Homo sapiens
698	128	128	5-HT1B Receptor	P28222	598	KRVSDALLEKKKLMA	Homo sapiens
699	128	128	5-HT1B Receptor	P28222	599	ANLSSAPSQNCsAKD	Homo sapiens
700	129	129	5-HT1D Receptor	P28221	577	IKLADsALERKRISAA	Homo sapiens
701	129	129	5-HT1D Receptor	P28221	588	QEASNRSLNATETSEA	Homo sapiens
702	129	129	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	129	129	5-HT1D Receptor	P28221	590	KAGEEMSDCLVNTSQIS	Homo sapiens
704	130	130	5-HT1E Receptor	P28566	815	RHLSNRSTDSQNSFASC	Homo sapiens
705	130	130	5-HT1E Receptor	P28566	817	CTTEASMAIRPKTITEKM	Homo sapiens
706	130	130	5-HT1E Receptor	P28566	818	DNDLDHPGERQQISST	Homo sapiens
707	130	130	5-HT1E Receptor	P28566	2738	CVSDFSTSDPTTEFEK	Homo sapiens
708	130	130	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQKRGSSR	Homo sapiens
709	131	131	5-HT1F Receptor	P30939	604	ESGEKTSKSVTSYVL	Homo sapiens
710	131	131	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	131	131	5-HT1F Receptor	P30939	864	IAKEEVNGQVLLSEGE	Homo sapiens
712	131	131	5-HT1F Receptor	P30939	869	STVRSLSRSEFKHEKSWR	Homo sapiens
713	132	132	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSERNTNLSC	Homo sapiens
714	132	132	5-HT2A Receptor	CAA01675.1	1107	FGLQDDSKVKEGSC	Homo sapiens
715	132	132	5-HT2A Receptor	CAA01675.1	1108	PGSYTGRRTMQSISNEQKAC	Homo sapiens
716	132	132	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKQHSSEASKDNSD	Homo sapiens
717	132	132	5-HT2A Receptor	CAA01675.1	1110	NTIPALAYKSSQLQMGG	Homo sapiens
718	133	133	5-HT2B Receptor	P41595	1111	KGIEDVDNPNNIITC	Homo sapiens
719	133	133	5-HT2B Receptor	P41595	1112	CSSPEKVAMLDGSRKDKA	Homo sapiens
720	133	133	5-HT2B Receptor	P41595	1113	RRTSIGKIKSVQTISNE	Homo sapiens
721	133	133	5-HT2B Receptor	P41595	1114	CNRYATKSVKTLRKRSSK	Homo sapiens
722	133	133	5-HT2B Receptor	P41595	1187	SGLQTESIPEEMKQIVEEQG	Homo sapiens
723	134	134	5-HT2C Receptor	P28335	1115	CKRNTAEENSANPNQDQNA	Homo sapiens
724	134	134	5-HT2C Receptor	P28335	1116	GHTPEPPGLSLDFLKC	Homo sapiens
725	134	134	5-HT2C Receptor	P28335	1117	CNRYVEKKPPVVRQIPRV	Homo sapiens
726	134	134	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNNTTC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSFLVHLIGLLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPVAIVTDIFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKPDGVQNWPAALS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIDUEKRKFNG	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRPQSADQHSTHRMR	Homo sapiens
733	136	5-HT4 Receptor	CAA73107.1	656	CDDERYRRPSILGQTVP	Homo sapiens
734	136	5-HT4 Receptor	CAA73107.1	657	RDAVECGGQWESQCHPPATS	Homo sapiens
735	136	5-HT4 Receptor	CAA73107.1	2682	VTAKEHAHQIMLQRAGASSESRP	Homo sapiens
736	136	5-HT4 Receptor	CAA73107.1	2683	KSFRRAFUILCCDDE	Homo sapiens
737	136	5-HT4 Receptor	CAA73107.1	2684	VTAKEHAHQIMLQRAGA	Homo sapiens
738	136	5-HT4 Receptor	CAA73107.1	2685	KEHAHQIMLQRAGA	Homo sapiens
739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIMLQR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPRERQASLASPSLRTS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMRDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAVNFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASPARTWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAAKHKFPGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANILRLKHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLIRAC	Homo sapiens
748	272	Adenosine A1 Receptor	AA17544.1	8	CHKPSILTYAIFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AA17544.1	9	NGSMGEPVIKCEFEKVISMIE	Homo sapiens
750	272	Adenosine A1 Receptor	AA17544.1	10	NKKVSASSGDPQKYVGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AA17544.1	11	NDHFRCCQPAPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQPKPPIDEDLPEEKAE	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEDLPEEKAE	Rattus norvegicus
754	272	Adenosine A1 Receptor	AA17544.1	303	MPPSISAFQAAYIGIEVLI	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNLTGLPDVELLSHELKVC	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVMITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQQEPFKAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIREFRQTFRKIIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTINES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDHSRTLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDFRYTFHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSGNGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGKNPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MLLETQDALVVALELVIAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIRNKLNLNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NMKLTSEYHRNVTLSC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKIKKFKETYLILKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRIRWLALGIC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPEEIFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADDIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVIMRRTVVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTIRSLAAGVKRERKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEVPDPDERFCGITEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRLRMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTRSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMNSKELTRIHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLERSQSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLLTEPSPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AA93114.1	1245	SGMASAKTKTHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AA93114.1	1246	RIPVGSRETFYRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AA93114.1	1247	SSMPRG SARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AA93114.1	1248	ESRGLKSGLTKDSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPGLGPERSAGPG	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEAPAGPRDLDALD	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVKPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPGATGIGTPAAGPGEE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGA AKASRWGRGNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	IVKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMASGRQRRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRTKAWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AA802793.1	794	FRIMKEYSDEGHNVAC	Homo sapiens
804	600	Bradykinin B2 Receptor	AA802793.1	795	CTMQIMQVLRNNEMQKFE	Homo sapiens
805	600	Bradykinin B2 Receptor	AA802793.1	796	CQDERIDVTQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AA802793.1	797	CRSEPIQMENSMTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AA51667.1	1357	RVFREAQKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AA51667.1	1359	ANGRAGKRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AA51667.1	1362	CNGGAAADSDSSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEQEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVIMVFVSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRSLAPAPVGTCAPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPLRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAAARSSPAQPRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWYTVGTKYRSESYT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMTDESDT	Homo sapiens
825	692	Bombesin Receptor Subtype-3	AAA35604.1	20	SITNDTESSSVVSNDNITNK	Homo sapiens
826	692	Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCSTSPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLYKSTLNIPTEEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAKQLFCCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	GRQPHSPNQTLISITNDE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNVNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SGGHINNSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYGVVHRLRQAQRPP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFPSWRRSSSESENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTEFDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLFQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TLISVFQDFLFTEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVVSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRVIFLPSEKLETS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MINATEVDTITQDETIVNSW	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESIYSNYLYESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTQSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLEVEVLQDCIFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDYIGDNTTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHRRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFKFLDGLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELUQTNG	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHLKRCQNHNTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SQIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSSYDYGENSEDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRRLRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLDNAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRGLQRQPSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRMTDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGQKRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRLD	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPDND	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQIGILEAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DUNTPVDKTSNLTLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTILLRTWSRRATRSIK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRLRKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELEESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVSTISDGPVSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAGQLDNSMGDS	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSFKENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMILSGPK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMLDVLAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHCLAHWKCC	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEVPVGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNHKKQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKGFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSKTS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRTRKPNK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLLNGQVREYKRWITGKTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLLNGQVREYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGESEHQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSITSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVGEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRYDLHYRIAL	Homo sapiens
914	1103	Corticotropin releasing factor Receptor 2	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	factor Receptor 2	1103	Q13324	505	DPEGPYSYCNITLDQIGTCW	Homo sapiens
916	Corticotropin releasing factor Receptor 2	1103	LR43	507	ALLEQYCHTIMLTNLSG	Homo sapiens
917	Dopamine Receptor D1	1240	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	Dopamine Receptor D1	1240	CAA41734.1	42	KAKTPSPSDGNATSLAETID	Homo sapiens
919	Dopamine Receptor D1	1240	CAA41734.1	43	CSQPESSFKMSFKRE	Homo sapiens
920	Dopamine Receptor D1	1240	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	Dopamine Receptor D5	1241	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	Dopamine Receptor D5	1241	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	Dopamine Receptor D5	1241	P21918	1409	PNAVTPGNREVNDDEE	Homo sapiens
924	Dopamine Receptor D5	1241	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	Dopamine Receptor D2	1242	P14416	1403	KRSSRAFRALHRLAPLKGNC	Homo sapiens
926	Dopamine Receptor D2	1242	P14416	1404	CTVIMKSNNGSFPVNRIRV	Homo sapiens
927	Dopamine Receptor D2	1242	P14416	1405	KPEKNGHAKDHPKIAK	Homo sapiens
928	Dopamine Receptor D2	1242	P14416	1406	GKTRTSLKTMRRKLSQQKE	Homo sapiens
929	Dopamine Receptor D3	1243	P35462	1398	KQRRRKRLITRQNSQC	Homo sapiens
930	Dopamine Receptor D3	1243	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	Dopamine Receptor D3	1243	P35462	1400	CQDIALGGPGFQERGGGE	Homo sapiens
932	Dopamine Receptor D3	1243	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	Dopamine Receptor D3	1243	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	Dopamine Receptor D4	1244	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	Dopamine Receptor D4	1244	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	Dopamine Receptor D4	1244	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	Dopamine Receptor D4	1244	P21917	1397	PPQTTPPQTRRRRAKITGRE	Homo sapiens
938	Op1old Receptor, delta 1 (OPRD1)	1267	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	Op1old Receptor, delta 1 (OPRD1)	1267	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	Op1old Receptor, delta 1 (OPRD1)	1267	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	Op1old Receptor, delta 1 (OPRD1)	1267	AAA18789.1	226	SRPREATARERVATAC	Homo sapiens
942	Duffy Antigen	1424	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	Duffy Antigen	1424	AAC50055.1	1412	NDSFPDGDYDANILEAAAPC	Homo sapiens
944	Duffy Antigen	1424	AAC50055.1	1413	CHASLGHLRGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKKALGMGPGP	Homo sapiens
946	1451	EBV-Induced Gene 2	AAA35924.1	45	KQEAERITCMEYPNFEET	Homo sapiens
947	1451	EBV-Induced Gene 2	AAA35924.1	46	KLFRITAKQNPLTEKSGVNKK	Homo sapiens
948	1451	EBV-Induced Gene 2	AAA35924.1	47	KSAPEENSIREMITETQM	Homo sapiens
949	1451	EBV-Induced Gene 2	AAA35924.1	48	CKGYKRKVMRMLKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRATPLLQTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RSLAPAEVPGDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRTISPPCCQGGPIEKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EEKQSLEEKQSCLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSTNLNHHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPGIEKFREEAEERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGGLPVDIFLR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSSTAFRPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKV/AARATLRRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVVSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKV/AITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SYESAGYTVLRILPLVL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFTVTIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKV/AITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	58	QESKVTEIPSDLPNAIELR	Homo sapiens
972	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	AAA52477.1	59	DVLEIEADVFSNLPK	Homo sapiens
973	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	AAA52477.1	60	RNGHCSSAPRVTSYSTY	Homo sapiens
974	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	AAA52477.1	61	RGQRSSLAEDNESSYSRGFD	Homo sapiens
975	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2231	CHHRICHCSNRVFLCQE	Homo sapiens
976	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2232	LRVIGKGAFSFGDLEK	Homo sapiens
977	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2233	LYVMSLLVLNVLAFFVIC	Homo sapiens
978	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2234	CNKSILRQEVDMTQARGQR	Homo sapiens
979	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2238	KLVALMEASLTYPHC	Homo sapiens
981	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2241	SFESVILWLKNGIQEIHNC	Homo sapiens
982	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2248	IHSLQKVLLDIQDNINIHT	Homo sapiens
983	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2250	KANNLLYITPEAFQNLIP	Homo sapiens
984	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone	NP_000136.1	2251	CYEMQAQIYRTISSTVH	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1437	TNTPSSRKIMVRRWVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1439	ARASASSDQEKHSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1893	PDTYYLKTVTSASNNETVC	Homo sapiens
989	1762	Galanin Receptor GalR1		AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1		AAA50767.1	193	PRASNQTFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor GalR1	AAA50767.1	194	KKLKNMSKSEASKKTAQ	Homo sapiens
992	1762	Galanin Receptor GalR1	AAA50767.1	195	GNSLVITVLARSKP	Homo sapiens
993	1762	Galanin Receptor GalR1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYRREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFLDQRULER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHSADLPVNDWDWHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTRELELAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGPLGAVHQNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSQKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPWRDAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTGKKEKGKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNQSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDAKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFGSSYPGVQS	Homo sapiens

1017	1945	Opsin, green-sensitive	NP_000504.1	1750	CILQLFGKVVDDGSELSS	Homo sapiens
1018	1945	Opsin, green-sensitive	NP_000504.1	1767	STRGPEGPNVHIAPR	Homo sapiens
1019	1945	Opsin, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKL	Homo sapiens
1020	1945	Opsin, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTDPTDINEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRRGDAVVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQIRKLSTLKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLQAAEEMPNTILG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSES GAVKRD	Homo sapiens
1027	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	835	VRKLEPAQGSLSHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GNWHFMQQTSVVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKLR	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVVFSEQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQVWSGLHMINRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYRIFKVARDAQKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHSSWKAA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLRNASQLSRTQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTKVFSSEN	Homo sapiens
1045	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1434	CESTVRKVSINKLYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1435	FAVRNPELMATNKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1436	CKRRAELYRRKDFSAYTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSRGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRVYAVVQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTQHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLEURNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor (MC3R)	P41968	563	IVHSDYLTFEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R) Melanocortin 4 Receptor	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	(MC4R) Melanocortin 4 Receptor	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	(MC4R) Melanocortin 4 Receptor	AAB33341.1	1035	NSTDIDAQSFVNIDN	Homo sapiens
1064	3058	(MC4R) Melanocortin 4 Receptor	AAB33341.1	1469	NSTHRGMHTSLHLWNIRSSYR	Homo sapiens
1065	3059	(MC5R) Melanocortin 5 Receptor	P33032	1022	ATEGNLSPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R) Melanocortin 5 Receptor	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R) Melanocortin 5 Receptor	P33032	1025	MNSSFHUFLDLNUNAT	Homo sapiens
1068	3059	(MC5R) Melanocortin 5 Receptor	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1036	QGSQRILLGSLNSTPT	Homo sapiens
1070	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1039	ALRYHSIVLPRARQA	Homo sapiens
1072	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1040	CQHAQGIARLUHKRQRP	Homo sapiens
1073	3079	Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens
1074	3079	Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens
1075	3079	Melatonin Receptor type 1a	AAB17720.1	216	QVRRQVKKPDRPKLKP	Homo sapiens
1076	3079	Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens
1077	3080	Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens
1078	3080	Melatonin Receptor type 1b	P49286	931	LVAIFYDGGWALGEEHC	Homo sapiens
1079	3080	Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens
1080	3080	Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLSQSPA	Homo sapiens
1081	3080	Melatonin Receptor type 1b	P49286	934	GEMAPQIPEGLFVTSY	Homo sapiens
1082	3081	Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPNDNQLAE	Homo sapiens
1083	3081	Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens
1084	3081	Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens
1085	3081	Melatonin-Related Receptor	Q13585	754	HPKPAADNPELSASHC	Homo sapiens

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPESSAAPGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMNKSGVVRVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNTFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKTLNVVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEVVYEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSIRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFDK	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVVTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGILFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLLAIDSSNYEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLYKI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGSGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGSWDNGL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVVSKSNIIRSV	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAAEEHFPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPITLSHRAGSARTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTQSDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAQSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLDTPNSRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELLYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHTHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLEINTSSTKITYSYS	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQRTHSQEYVHS	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRTNHQLLENLEAETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEQSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLQLQAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPPGSEVVIKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRPQS	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVAVASNMIRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSQITC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQNVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANGDPVSPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKKHRPEGPKEKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKRPPGGRRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSGSGSATQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRLRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDEKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETETIV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETINGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNGFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLTAASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSPQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISLDNSSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPEPIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRISF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHGRRRQRTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRDLAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQITVEEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSALEFLADKVVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFHKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLEESEHLPLST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MKKRNGKTTVNFLGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLTLPSSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKKHRRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSRILPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENS DVHEL RV	Homo sapiens
1179	3408	Type 5 Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Type 5 Neurotensin Receptor Type 1	P30989	936	CHPFFKAKTLMRSRTKK	Homo sapiens
1181	3408	Type 5 Neurotensin Receptor Type 1	P30989	937	GEQNRSDAGQHAGGLVC	Homo sapiens
1182	3408	Type 5 Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGG EHS	Homo sapiens
1183	3408	Type 5 Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSIAK	Homo sapiens
1188	3513	Type 5 Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTQPMASPRLGTFC	Homo sapiens
1189	3513	Type 5 Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRQGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKAQNDLDSRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSRRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKSSRNIFSIVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRIGLGETSASKSNSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKRR	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGURSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGVVYPLKSLGRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVRKNKNTTCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RALYKDLDNSPLRRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRATRKASRRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNNAASEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLSRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIGNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMAMVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRRPHLLQKLTAK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGRRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLTKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	248	KAKVQCELNITACLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	249	ESLIMQDDPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	251	EETKEDSGRQGDDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	763	LYSGATLDEAERLITEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIGRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPFLFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVWSRNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRVFAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVWSR	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTTKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRKERIEGLKRRRR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGGQMHEKSIPIYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKPKF	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMINERTSMINERE	Homo sapiens
1245	3846	Spingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLIFRKNISKASRSE	Homo sapiens
1246	3846	Spingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIAG	Homo sapiens
1247	3846	Spingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIAGME	Homo sapiens
1248	3846	Spingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Spingolipid Receptor Edg3	Q99500	1028	ERHLTIKIMRPYDANK	Homo sapiens
1250	3847	Spingolipid Receptor Edg3	Q99500	1029	LVKSSRKVANHNSE	Homo sapiens
1251	3847	Spingolipid Receptor Edg3	Q99500	1030	SPKVKEDLPHTDPSSC	Homo sapiens
1252	3847	Spingolipid Receptor Edg3	Q99500	1031	CLVRGRGARASPIQPALD	Homo sapiens
1253	3847	Spingolipid Receptor Edg3	Q99500	1752	REHYQYVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVVPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKSKSHKALKVTIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVTKLNLGC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLDVYSLESDEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNHITLCYNINFQKHD	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQRQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SVRVSVKLRNRVVPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTGSQADWDRARRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10)	AAA91630.1	78	GCI PSSLAGRARPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRVPAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRLTKNNA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVITGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Receptor 1	AAA91783.1	85	SMNNRTVQHGVITSL	Homo sapiens
1273	3852	CX3C Chemokine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Receptor 1	AAA91783.1	87	GRSVHVDFFSSSQSRHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSSTETSDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRUD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNITC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVK/KEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRLRLRKSFSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSREKAKKMIASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVVRTMNVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMISSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTITKDSINYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1152	ALLFSQDGGQREGQRRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1154	ALLDTADLLAARERSC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1155	RRLRGSSPSGPQPRRGC	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KSGRRHHLSAGPHALTQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLHLFARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGGEREPSSGDVWSMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNQSSHFPCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQTANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNTVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERERQKRVRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLIC/MCHI	AAH01736.1	1532	CAPGQQGRRWRLPQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLPTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGGSCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMTSSVAPASQRSIRLTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNAGTAEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPGGQDSQCGEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLEELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVYCILLGDAHSPPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGPTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVVPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGFSFIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSVRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTCFEKFPM	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGVSSTERQEKAKIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLLRFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRINSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVPSQTSLLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CUAERAAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVVRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRCQCVLVPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RUHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRRLRLQLTC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSQDNGTGHNAIFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTRYGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSLRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWSLRQRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMITGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTGAPALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHSGKHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNHSHKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKDQI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDLARLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostaglandin Receptor	P43119	1188	CRMVRRQQRHQGSLGPRRT	Homo sapiens
1349	3921	Prostaglandin Receptor	P43119	1189	CFTQAVAPDSSEMMD	Homo sapiens
1350	3921	Prostaglandin Receptor	P43119	1190	ASGRRDPRAPAPVGKEGSC	Homo sapiens
1351	3921	Prostaglandin Receptor	P43119	1191	SAWGEGQVEPLPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTSVEKGNNAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREGASPPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEEAEDLRALR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAAGRLRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTRPLLHAARVSARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDEVEMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGDVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIRIAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRFSFRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSGGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMKAYQRRFRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWDERFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTPRSSKGRSLIGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNINLAKPTLPIKTR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLVKKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCDDVHNITCESSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAVLTJK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGETPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEGKTNESSLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNEFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFVIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYTLHGY	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGS DGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGD RNFISFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLKSGHLQVNIT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSRGQTGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRMILSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MIRKLRTQETRGRNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLES GG VFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDVAVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKE	Homo sapiens
1410	4481	Somatostatin Receptor Type	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type	P30874	1001	KQDKSRUNETTETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type	P30874	2276	DMADEPLNGSHTWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type	P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type	P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type	P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type	P32745	2626	QPGTSGQERPPSRVA	Homo sapiens
1417	4483	4	Somatostatin Receptor Type	P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type	P31391	1008	CLLEGAGGAEEEEPLDY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type	P31391	2627	KMRAVALRAGWQQR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type	P31391	2631	CRAVLSVDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type	P31391	2633	CLVGLVGNALVIFVIL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type	NP_001044.1	2637	SLPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type	NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type	NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552		Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYEKV	Homo sapiens
1427	4552		Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDYEGLMKSTRYL	Homo sapiens
1428	4552		Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETTISTVVGAAHEE	Homo sapiens
1429	4552		Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSDLTSNC	Homo sapiens
1430	4687		Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687		Thrombin Receptor	P25116	2582	AVANIRSKKSRALFLSAAVFC	Homo sapiens
1432	4687		Thrombin Receptor	P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNNDKYEFW	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLCKCKQKPT	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVAlNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDITVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAIPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYGSVIVPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLKLTNSYGKKNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPIITWLQGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDTRPEEFDHYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPURALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HIIRTIYILARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEQ	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQTFYSNNIRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATIPWLGRDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AA65687.1	269	ESPRDLEADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSGGAHWNRPLVAVAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVPGPSE	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRPTNIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSYMTIVIA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRRLAMLFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSTDA	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRWDRQEEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKKQRAQSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWSVSSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLTKC	Homo sapiens

1481	5521	Inhibitor 3			979	CTDDNLRGADMIVHPQER	Homo sapiens
1482	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242		980	SRSETGSTISMSSILERR	Homo sapiens
1483	6031	SIV/HIV Receptor BONZO	O00574		1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031	SIV/HIV Receptor BONZO	O00574		1102	KATKAYNQQAARMTWG	Homo sapiens
1485	6031	SIV/HIV Receptor BONZO	O00574		1103	KTLHAGGFQKHSRK	Homo sapiens
1486	6031	SIV/HIV Receptor BONZO	O00574		1104	SLKFRKNFWKLVKDIGC	Homo sapiens
1487	6031	SIV/HIV Receptor BONZO	O00574		1105	KSEEDNSKTFASAHNV	Homo sapiens
1488	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		67	RRRVQIRMAEHVSHPRYRE	Homo sapiens
1490	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		68	NAAVYSCRDAEMRRITRR	Homo sapiens
1491	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	C-C Chemokine Receptor 5	AAC50598.1		38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	C-C Chemokine Receptor 5	AAC50598.1		39	QQAEPERASSVYTRSTGEQE	Homo sapiens
1494	6213	C-C Chemokine Receptor 5	AAC50598.1		40	RSQKEGLHYTCSSHFPYSQ	Homo sapiens
1495	6213	C-C Chemokine Receptor 5	AAC50598.1		309	MDYQVSSPIYDINVTSEPC	Homo sapiens
1496	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1092	EDEYDVLIERGELESEAEQC	Homo sapiens
1497	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1094	MIRKTLRFREQRYSFLKLVFA	Homo sapiens
1499	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1096	RSNTPLQPRGQSAQGTRE	Homo sapiens
1500	6446	Pael Receptor (GPR37)	AAC51281.1		127	GPNGSARDVLRARAPREEQG	Homo sapiens
1501	6446	Pael Receptor (GPR37)	AAC51281.1		129	DPGPPRRGNSNRRVRKINP	Homo sapiens
1502	6446	Pael Receptor (GPR37)	AAC51281.1		130	LRQLSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Pael Receptor (GPR37)	AAC51281.1		131	PRGAVISGRSQEQSVKTPG	Homo sapiens
1504	6446	Pael Receptor (GPR37)	AAC51281.1		1781	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1505	6446	Pael Receptor (GPR37)	NP_005293.1		1806	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1506	6536	Putative Neurotransmitter Receptor (PNR)	O14804		319	TDVETRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPQTR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVNSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIA PQGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSPGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVLNVDDARRRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGLALYRFSIRKQR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRIRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQIRPLLFASTRQSSARRTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAE PQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDLLHMEAAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSAIPGAQMGMVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGLDLEQLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSGSRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRISTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMPSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLYPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLPLGNITPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELQTKVPKVG RVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQRKAGNFTSILIAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKV DKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIYIRLKRNNMMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDYETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDDCHLP LAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

Type 1						
1555	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Frizzled-2	NP_001457.1	1774	NHSEDGAPALLTIAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPFHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRRPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGQSFHGCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVRPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PPFLDDAAPCEPESLE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPIKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPFLYVVGRRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVWPNGLVRRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQIRWGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANNGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFRLSRITLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNTQGSDVCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMNIRSCQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSSGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGEPTSNE	Homo sapiens

1581	16599	Smoothed	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothed	NP_005622.1	2671	ANVTIGLPTKGPIPC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPAADRAYVV	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNGSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRIGPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDIRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFVYVDYLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPVHRLTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGGGRAIK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEKKKEWRKTLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEYVCRGEREVVGPVKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRLSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANLIMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIGRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAAYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210	NP_057456.1	1524	GGTLEILYPDAHLSAED	Homo sapiens
1605	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	G Protein-Coupled Receptor LOC51210	ENSP00000164265	2030	SVVQLRRQRDPDFEWNEGILC	Homo sapiens
1607	19072	Receptor Ls19072	ENSP00000164265	2032	PAVGWHDTSERYTHGC	Homo sapiens
1608	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	Receptor Ls19072	Q9UIZ3	1513	EHEPAGEEALRQKRAVATK	Homo sapiens
1610	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1514	ALRQKRAVATKSPTAE	Homo sapiens
1611	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	Receptor KIAA0758	Q9UIZ3	1518	RLANNTGGWDSSGCVVEEGD	Homo sapiens
1613	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1519	CKQEKSLFQISKISG	Homo sapiens
1614	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2164	CTAFQRRREGGVPGTRPGSPG	Homo sapiens
1615	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2167	CPAERVANNIRGDFRWPR	Homo sapiens
1617	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2171	QNPPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	426	TLARPDATQSQRRRKTVRL	Homo sapiens
1621	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	427	RSKLVAASVPARDVRG	Homo sapiens
1622	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	428	AQSERSAVTTIDATRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGSR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQID	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYIKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILTKEIKINTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVVIMIRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDGGPGKNTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQIFISQSSRRKRKHNSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAGKILYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRRLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIVYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLITEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAGRTGRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYYREPFVQRQRTSR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFSCSQDSGNL	Homo sapiens

1645	36534	Receptor RE2	1232	CQKLQKIDLRHNEVEIKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	1233	NKGDNSSMDDLHKKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	1234	QDERDLEDFLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	1235	ERGFVSVYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2600	CKKINQLUSETAEAVTN	Homo sapiens
1652	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2610	ADDQTLLQMMMDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2672	KYNQSIISLRPRRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2674	DGDRQKAMKRLRVPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2103	RVRSGRVRSYSTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2105	CNNSVPGKEHPFDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2106	APSKPGLPKPQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2135	AASKPKSTPAVIQGPSKGD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	1261	KRSELNKTLLQTLSETYFMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	1262	GNASTERNGVSFSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	1263	CRIRKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	1264	DFTGKQHMFNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNVNPASAGNQTKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVVNVSSLSNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKFSVHNING	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLTPRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFILIG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVTLTPRVTKIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAAQAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATGNRRRFQFTQNGKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIGEEYRFLKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLTKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLSVNHRRTLTKLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSYELQQQSMKRSNRRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQMDQDHSSSDSWNNIN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRURSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARVGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTPQLKVVGGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSF	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSGLGKDDLPPSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRKNTSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRFSRPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAAGQRPDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRITTE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSTRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPSLTVRPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDTFHVKVLSGGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRRTVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQIRSCQAKQQL	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	Receptor 1 (CCXCR1)	NP_006785.1	1589	RIEPPYSYNSPQQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNYNKLOHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVNR	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPQKKFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQSDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMDDYPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AA05897.1	1286	RRVPGHQAHGANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AA05897.1	1287	KEDKLEIPTTSLSTRVNC	Homo sapiens
1731	152198	Tachykinin Receptor 2	AA05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVAWPEDSGGKTL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVFFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKIVTRNPQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRNTNESGEEVT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEETTFDQYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNFMTGMPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFLRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYTSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLTETLNKYVVIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTINISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREEESHNRDCCRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQRPRQKDNK	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNITEQVRSGNETC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEDRGVGGGEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLNRNGSSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSGGSNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2 Vasoactive Intestinal	P41587	1306	CGSSFSRNGSEGALQFHR	Homo sapiens
1761	160055	Polypeptide Receptor 2 Motilin Receptor (GPR38)	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPTAEAAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRPLRGPAASGRERGHRQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRDITAG	Homo sapiens
1765	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1595	NPLVTGYLGRGPGKTV	Homo sapiens
1766	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1596	GRYLGAAPFLGYQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1599	NASNVASFLYPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRLVAAW	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGSPDPAAPHAEHLRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCPGCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMR)	O15218	391	NVLTACRLRQPGQPKSRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMR)	O15218	392	KDQTKAGTCASSSSCSTQ	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMR)	O15218	484	KGDSQPAAAAAPHPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGTPNTVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTRKWNCGTCHYLAFNSD	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLLREGWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMIKEIYHPRMILL	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEFFLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMNSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAAVSLRLQHRGRRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRTSSTA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPGRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMQRQTVTWVTLHLALSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYWNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFVTSLAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGTLNRLSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFSPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPRKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSVVDVCIFE	Homo sapiens
1807	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHLLGRRDHTQDWVQKQ	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSIFFLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMINRAHRPSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	2	AQRPPDVGQAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYTSKLSDANC	Homo sapiens
1815	160221	Receptor GPR27 G Protein-Coupled	LR6	335	FPPVLDGGGDDDEAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGSGGEEAAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARILLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKQEDGGQSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADEQSAEAAALVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAESQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLHSDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQQSRSKRGTEDEEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPDKDGCTDSDGQELR	Homo sapiens
1830	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Spingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLSRMRE	Homo sapiens
1833	160225	Spingolipid Receptor Edg6	CAA04118.1	71	ERFATMVVRPVAESGATKTSR	Homo sapiens
1834	160225	Spingolipid Receptor Edg6	CAA04118.1	72	RLVQASGGQKAPRPAAR	Homo sapiens
1835	160225	Spingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASITDSSLRPDR	Homo sapiens
1836	160225	Spingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGGQKAPRPAAR	Homo sapiens
1837	160225	Spingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPDRSFRGSRSLSRM	Homo sapiens
1838	160225	Spingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMIREPLSSISVR	Homo sapiens
1839	160225	Spingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDETVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNSGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRQRKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTFLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWWSKDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVILKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPADLPAAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLSVDDSDKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVKLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRLPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHYNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1922	MMRKKAKFSLRENIPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1924	CEQTEEEKKLKRHLALFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1925	KKRVGDGSLRTIHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDTNSSSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRRKKQKIHK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPQQELVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDRKNN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSQTNNTKDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRRLALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQTFLRARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1213	CELRDLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSFEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFQRTKGRSGEAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLEETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTIENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAELRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHSEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMHKRETC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSYDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLGSRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELIGHLVPHHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDIPEGVNSLDPSHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSQPSYIPFLREES	Homo sapiens
1890	160397	Latrophillin-2	O95490	1132	CEALDSKGKWPQTQR	Homo sapiens
1891	160397	Latrophillin-2	O95490	1133	DILDAQLQELKPSEKD	Homo sapiens
1892	160397	Latrophillin-2	O95490	1136	RTHSLLYQPQKKV/KSE	Homo sapiens
1893	160397	Latrophillin-2	O95490	1137	RDSPYPESPDMEEEL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDSYNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTAADAANVTSTLENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTIKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDTLDIRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENVP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor	O14626	1226	ETFA SPKETKAQKEKLR	Homo sapiens
1910	161024	Homolog (H963) Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRR	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRRSSLDGSESAK	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDEINIFSTPRE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPPEYLGQRHLEDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITFIDETPLSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSP	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRRFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RAIRALRRVRPSSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCSGRSLSCSPQPID	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDNLITDEALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRRLRRERILLMQEAKGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSAARSRYSYTCRLQGH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFLLKPFRRARDWKRRYD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFILRLSTDLNNKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSTVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRQPPMAFGGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YDDDDDDVDVEESAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYPEMSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYYVIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEGKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLTSSPAPTASPPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSSPFLMAKPQKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHSLSSTVTVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQQGDTTRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRDGAREAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQRFRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPSLRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKIMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTLFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRRAQPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALLSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPTSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDTVTMKALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSLRLPPEPERPFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHUNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KDKSLEADEGNANIGRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQRNIFLTC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKTQNLNRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMISEFFREGLGKVMK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKV/PSPEPASIPEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTVPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQTGPGSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSESLSSRSTMVTS	Homo sapiens

1978	189895	Receptor GPR61 G Protein-Coupled Receptor GPR61	AAK12637.1	1687	SSGAPQITPHRTFGGK	Homo sapiens
1979	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1980	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVRPLPSPKQE	Homo sapiens
1981	189900	Sphingolipid Receptor Edg8	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1982	189900	Sphingolipid Receptor Edg8	LR1	316	ALERSLTMARRGAPVSS	Homo sapiens
1983	189900	Sphingolipid Receptor Edg8	LR1	317	DGSFSGSERSSPQRDGLD	Homo sapiens
1984	189900	Sphingolipid Receptor Edg8	LR1	318	CGRDPSSGQQSASAAEASG	Homo sapiens
1985	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAEAGKLVQGEVS	Homo sapiens
1986	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1987	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYLLHETWRFGAAAC	Homo sapiens
1988	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1989	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1990	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVDESSYQPSR	Homo sapiens
1991	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFREHLLQKKE	Homo sapiens
1992	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1993	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQRNRQVATAUPL	Homo sapiens
1994	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSWKQYQC	Homo sapiens
1995	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFFPLAVGNPDLQIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNALRIHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMISLQRPFQMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRTQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVYGKESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTVFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKSLKLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLLRSDDTGPNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQIHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVLTITQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQLVWKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTLFLDGERERK	Homo sapiens
2013	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1729	EGKEGDYIRIPERILLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRNQNNGVKKDKKAAK	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVVLFDAIT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDLQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPRAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDUHLDDDESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLYNVKRRHSL	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPSS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVVKRAAQALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSVNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSPYVWWPNWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFSIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FELFLWIHVDR	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHPQKATKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFPIVYLIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIYFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADYVLRGSNWIFGDLC	Homo sapiens
2050	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLLHVTSIRSAWILC	Homo sapiens

2051	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2257	CGIIWILMASSIMILDSGS	Homo sapiens
2052	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2260	VSHRKALTIITLIIFLC	Homo sapiens
2054	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGL	Homo sapiens
2055	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2262	CKDRLHKALVITLALA	Homo sapiens
2056	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor	Cysteinyl Leukotriene CysLT2	NP_065110.1	2264	HPQKAKTKCVFPVSVWLURKE	Homo sapiens
2058	190437	G Protein-Coupled Receptor C5L2	LR31		429	DSVSYEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	G Protein-Coupled Receptor C5L2	LR31		430	RESQGGQDESVDSSKSTSHD	Homo sapiens
2060	190437	G Protein-Coupled Receptor C5L2	LR31		431	PSAIYRRLHQEHFAPRLQC	Homo sapiens
2061	190437	G Protein-Coupled Receptor C5L2	LR31		432	CHWALRESGGQDESVDSSKKS	Homo sapiens
2062	190437	G Protein-Coupled Receptor C5L2	NP_060955.1		2818	MGNDSVSYEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	G Protein-Coupled Receptor Ls190438	ENSP00000080322		2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	G Protein-Coupled Receptor Ls190484	LR33		434	EADLGATGHRPRTELDDED	Homo sapiens
2065	190484	G Protein-Coupled Receptor Ls190484	LR33		435	RTCHRRQQQPAACRGFARVAR	Homo sapiens
2066	190484	G Protein-Coupled Receptor Ls190484	LR33		436	EERPGSFPIPEQTQLDSEG	Homo sapiens
2067	190484	G Protein-Coupled Receptor Ls190484	LR33		437	RSDPTAQPLNPTAQPSQSD	Homo sapiens
2068	190595	G Protein-Coupled Receptor SH120	NP_057418.1		1730	RNVTDTDILALERRLLQ	Homo sapiens
2069	190595	G Protein-Coupled Receptor SH120	NP_057418.1		1731	KKKRMAMARRIMFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENILUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALIELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKTDPTVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMIRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAQNAYSRHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSHSSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTLMRRKNTCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTILVQAIRITSYMNE	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPVPSYRSTHRS	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPPRPQGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLIASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRPAAERTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled	NP_005295.1	2569	MDTGPDQSYFSGNHWFVFSV	Homo sapiens

2092	190701	Receptor GPR41 & GPR42 C-C Chemokine Receptor 11	AAF61299.1	1441	VAIAYYKQRIKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFFDSEGPTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRIRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRREFRKALKSLLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATIKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAAVSQN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTILLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGVVARQPAGDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFAVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLLRHSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAYVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLURTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVV GKLLFEYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	558	KDCIESTGDYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFGLDSSGR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLLQEKQKKNHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKKRSLLGTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMDE	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLVMRKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPJLFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMLKIASMHSSQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSRPTPSDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSFLFLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLIYAYWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSLRSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPPLRPRLPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQIPE	Homo sapiens
2139	190749	Receptor GPR62	LR48	2702	VVARRAALRPPIPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQIPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQIPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDNSTINLSLSTRVTIAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRHRSYFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYIPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLKIVTLMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFFSEWYLAITSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINIYWSLWKRDLHSLRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSVALHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPGKTGTAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMVKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQISDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	481	TEVPDSAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	523	MSLAKRVMITGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	525	LHFIFGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FRL2)	NP_038475.1	1658	DELLEAPGDLETLRLQGH	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHILDGLEDVLRGLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVAVGLVSPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMHTLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGLLDGGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRRLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRGGGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMLFGKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RIYLAKEQARLUSDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEIYKHHVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRSVRSVLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLLYSG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVSV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSVVRTRGVGVKPR	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPFKTSNPKNLLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDAVIDAYMINFI	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TFLTSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSISCSIQNIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQPIKLKA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSFFTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLILWIKDSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLQIQSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDITSSKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1666	RDVESKVLTKDPEQK	Homo sapiens
2203	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1667	KIGNDSVAIETQAITDNC	Homo sapiens
2204	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1668	CSEERKTFNLNVQMNSMDIR	Homo sapiens
2205	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1669	EEMDKKQVYVLSQVWSAA	Homo sapiens
2206	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1670	SKSVTLTFQHVKMTPTSK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3 G Protein-Coupled	CAC21687.1	2142	CLLLPTAVIVFSYVKIIAK	Homo sapiens
2208	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQGTGGLKATKKKSLEG	Homo sapiens
2210	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RUHTVTVRKSSAVLE	Homo sapiens
2211	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSYVKIIAKV	Homo sapiens
2212	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQRLREVLTGHTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQTWGSERLGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRQSAARNRSGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTVVLRL	Homo sapiens
2217	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHHFMDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEAAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CPRPSGSHKEAYSERPGGLL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRLPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDIDIKTKKELIVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTKIWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALFWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADTLP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVIRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLAMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDQSASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KKDYQYPKSLDLSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGINNIDFDNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SQNGNNPQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNFLRSLPTLHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIGRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLI/MCH2	AAK32193.1	1849	TIIRSRKKTVPDIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLI/MCH2	AAK32193.1	1907	RRATEKEINNMGNLTKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2089	CRIEGDTISQVMPPLIVA	Homo sapiens
2244	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2094	TVPSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2095	CSLKPQPGHSGTKQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2096	CISVANSFQSGSDGGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSSEATNSSNRVFC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MigX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPFSQVGVDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFEEAVARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPKSVCS	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKOLPENVNEAK	Homo sapiens
2265	194904	WO0034334-hFB41A	LR114	2011	SDYDMPLDEDEDVTNS	Homo sapiens
2266	194904	WO0034334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEAAADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHRLLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNQSFPSKLQRLMKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAAGDAPLRSLQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQTTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGAILDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	QETLPTLQPNQNMITSEERQR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNQECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITIVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIKIETTSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KULSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFLE	Homo sapiens
2286	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2728	LINSHLRKILVS	Homo sapiens
2288	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSQETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMKEDLTYSVVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

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192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpha Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpha Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpha Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpha Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpha Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

503	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpha Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpha Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpha Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman